

**PHASE I ENVIRONMENTAL
SITE ASSESSMENT
1400 SOUTH BAY STREET
EUSTIS, FLORIDA**

Prepared for:

**City of Eustis
P.O. Drawer 68
Eustis, Florida 32727-0068**

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1.0 SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has conducted a phase I environmental site assessment (ESA) of the property located at 1400 South Bay Street in Eustis, Lake County, Florida, 32726 ("subject site" or "subject property"). This phase I ESA was conducted in general conformance with the scope and limitations of ASTM Practice E1527-05 for phase I ESAs.

ECT has performed a phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 1400 South Bay Street in Eustis, Lake County, Florida, 32726. Any exceptions to, or deletions from, this practice are described in Section 11 of this report.

The phase I ESA investigation revealed evidence of RECs in associated with the former use of the subject property as a television repair facility and the Express Mart #121, located at 1212 South Bay Street.

From 1982 through 1997, Florida TV, Inc. used the subject site as a repair facility. Due to the possible use of cleaning fluids and solvents and activities such as CPU repair and soldering, the former usage of the site is considered a REC.

On February 26, 2008, Global Engineering & Construction, Inc. submitted an Underground Storage Tank Closure and Closure Report for the Express Mart #121. According to this report, petroleum impacted soil with an organic vapor reading greater than 10 parts per million was not identified. No soil contamination was identified from the single soil sample collected during the closure activities. A groundwater sample was not collected. Because a review letter for the closure report could not be located for this site, ECT does not know the current status of the site.

2.0 INTRODUCTION

ECT has conducted a phase I environmental site assessment (ESA) of the property located at 1400 South Bay Street in Eustis, Lake County, Florida, 32726 ("subject site" or "subject property"). This phase I ESA was conducted in general conformance with the scope and limitations of ASTM Practice E1527-05 for phase I ESAs. A site location map is provided as Figure 1. Figure 2 and 3 show the subject property and the surrounding area.

2.1 Purpose

The Client requested that ECT conduct a phase I ESA of the subject property. The objective of the phase I ESA was to identify recognized environmental conditions (RECs) in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E-1527-05 guidelines. The term "REC" as defined by ASTM is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material

threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

This phase I ESA includes information gathered from federal, state, and local agencies; personal interviews with people familiar with the subject property and surrounding properties; and site visits conducted by ECT representatives. The report is intended to meet the due diligence requirements of ASTM E 1527-05.

2.2 Detailed Scope of Services

The phase I ESA conducted by ECT included, but was not limited to, the following services:

- Site visit of the subject property to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Drive-by observations of adjacent properties and the site vicinity;
- Interviews with individuals familiar with the subject property, as available;
- Review of regulatory and local agency files, as necessary;
- Review of historical documents, as available; and
- Preparation of a report presenting our findings.

2.3 Significant Assumptions

The purpose of this phase I ESA is to provide appropriate inquiry into the previous use of the subject property consistent with good commercial and customary practice in an effort to minimize liability. ECT assumes that the information provided by the regulatory database electronic search report provider and the regulatory agencies is true and reliable.

2.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and

circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared, and for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to site conditions existing at the time when ECT's assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of determining the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the subject site may vary from those at the locations where data were collected. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in ESA conclusions cannot reasonably be achieved.

ECT, therefore, does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

2.5 Special Terms and Conditions

The scope of work for this phase I ESA did not include testing of electrical equipment for the potential presence of polychlorinated biphenyls (PCBs) or the assessment of natural hazards such as naturally-occurring asbestos or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This phase I ESA also did not include an extensive assessment of the environmental compliance status of the subject property or of the businesses operating onsite, or a health-based risk assessment.

2.6 User Reliance

This phase I ESA was conducted for the use and reliance by the City of Eustis and the United States Environmental Protection Agency and may be relied upon only by these parties. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 SITE DESCRIPTION

This section presents a general overview of the subject property, onsite improvements, and surrounding properties.

3.1 Location and Legal Description

The subject property is located in Section 14, Township 19, Range 26 in Eustis, Lake County, Florida ("subject site" or "subject property"). The subject site is bounded by West Atwater Avenue to the north, South Bay Street to the east, commercial property to the south, and residential property to the west.

The Lake County Property Appraiser's Office information identifies the subject property under the following parcel identification number: 14-19-26-180100011900. The parcel is owned by Ralph G. Simons. A copy of the Lake County Property Appraiser's information is included as **Appendix A**.

3.2 Site and Vicinity General Characteristics

The subject property consists of one residential structure, one commercial structure, and a paved parking area. A site location map, site map, and a vicinity map are presented as **Figures 1, 2, and 3** respectively. The surrounding area consists of a mix of commercial and residential properties.

3.3 Current Use of the Property

The subject property consists of one residential structure, one commercial structure, and a paved parking area. Currently, the residential structure is occupied, while the commercial structure is not.

3.4 Descriptions of Structures, Roads, and Other Improvements on the Site

3.4.1 General Description of Structures

The subject property consists of one residential structure, one commercial structure, and a paved parking area.

3.4.2 Roads

Access to the subject property is from West Atwater Avenue from the north and South Bay Street from the east.

3.4.3 Potable Water Supply

The subject property is connected to city water services.

3.4.4 Sewage Disposal System

The subject property is connected to the city sanitary sewer system.

3.5 Current Uses of the Adjoining Properties

The subject site is located in an area of commercial and residential uses. The subject site is bounded by West Atwater Avenue to the north, South Bay Street to the east, a Motor Lodge (motel) to the south, and residential property to the west.

4.0 USER-PROVIDED INFORMATION

Information was provided by Mr. Ralph Simons, owner of the subject property and Mr. Kenneth McGrath, buyer.

4.1 Title Records

No title records were provided to ECT by the Client.

4.2 Environmental Liens or Activity and Use Limitations

Mr. Simons stated that no environmental liens were filed and no activity and land use limitations are placed on the property.

4.3 Specialized Knowledge

Mr. McGrath indicated that a floor drain located in the commercial building near the sinks was installed for the restaurant usage and was not present during the previous television repair activities.

4.4 Commonly Known or Reasonably Ascertainable Information

The site consists of one residential structure, one commercial structure, and a paved parking area. The commercial building was previously a sandwich shop (Bay Street Market) and a television repair facility.

4.5 Valuation Reduction for Environmental Issues

The purchase price for the subject property reflects the fair market value.

4.6 Owner, Property Manager, and Occupant Information

The subject property is owned by Mr. Ralph Simons.

4.7 Reason for Performing Phase I

The reason for performing the phase I ESA is to evaluate the presence/absence of RECs.

4.8 Other

No other information was provided to ECT.

5.0 RECORDS REVIEW

The following section presents the results of ECT's historical records review, including aerial photographs, topographic maps, Sanborn maps, city directories, and chain of title pertaining to the subject property.

5.1 Standard Environmental Record Sources

Regulatory agency database information was obtained from FirstSearch Technology Corporation (FSTC), which maps and lists properties in federal and state environmental databases with existing conditions or status that may have the potential to affect the subject site. The report is provided as **Appendix B**.

5.1.1 Federal Environmental Record Sources

ASTM E 1527-05 guidance requires review of the federal databases listed below.

5.1.1.1 National Priorities List (NPL; 1.0 mile)

The National Priorities List (NPL) is a subset of Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and identifies over 1,200 sites for priority cleanup under the Superfund program. An NPL site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the U.S. Department of Health and Human Services and the U.S. Environmental Protection Agency (EPA).

There are no listed NPL properties within 1.0 mile of the subject property.

5.1.1.2 Delisted NPL Site List (NPL; 0.5 mile)

The Delisted NPL Site List includes properties that have been delisted off the NPL.

There are no delisted NPL properties within 1.0 mile of the subject property.

5.1.1.3 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS; 0.5 mile)

CERCLIS contains data on potentially hazardous waste sites that have been reported to EPA by states, municipalities, private companies, and private persons pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS List includes sites that are either proposed for the NPL or in the screening and assessment phase for possible inclusion on the NPL.

There are no CERCLIS facilities listed within 0.5 mile of the subject property.

5.1.1.4 CERCLIS-No Further Remedial Action Planned (CERCLIS-NFRAP; 0.5 mile)

CERCLIS-NFRAP contains data on sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

There are no CERCLIS-NFRAP listed properties within 0.5 mile of the subject property.

5.1.1.5 Corrective Action Report (CORRACTS; 1.0 mile)

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

There are no CORRACTS listed facilities within a 1.0-mile radius of the subject property.

5.1.1.6 Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities (0.5 mile)

RCRA TSD Facilities includes selected information on facilities that generate, transport, store, treat and/or dispose of hazardous waste, as defined by RCRA.

There are no listed TSD properties within 0.5 mile of the subject property.

5.1.1.7 RCRA Generators Lists (Site and Adjoining Properties)

RCRA large-quantity generators (LQG) are those facilities that generate at least 1,000 kilograms per month (kg/month) of non-acutely hazardous waste or meet other applicable RCRA requirements. RCRA small-quantity generators (SQG) generate less than 1,000 kg/month of non-acutely hazardous waste or meet other applicable RCRA requirements.

One RCRA generator facility is listed within 0.25-mile of the subject property: **Lake County Schools North Lake Bus Lot**, 310 West Taylor Avenue.

An inspection was performed by FDEP on March 15, 2007 at the North Lake Bus Lot. Violations were identified at the conditionally exempt small quantity generator including failure to properly label a used oil collection tank and provide the tank with secondary containment; failure to perform a waste determination on the contents of the "miscellaneous" drum; and failure to ensure proper disposal of hazardous waste rags and aerosol cans. The violations were resolved through a consent order that covered six school board facilities and included the assessment of \$100,484.00 in penalties that were off-set through implementation of a pollution prevention project. As of October 27, 2009, the requirements set forth in the Consent Order 08-0193, dated April 8, 2008 had been completed. No further actions were necessary. No current violations were noted in the public record.

5.1.1.8 Federal Institutional Control/Engineering Control Registries (FED IC/EC - Site only)

FIC/FEC registries were requested in the database search.

There are no FIC/FEC properties listed within 0.5 mile of the Site.

5.1.1.9 Emergency Response Notification System (ERNS; Site Only)

ERNS is a national database that records and stores information on reported releases of oil and hazardous substances. The database contains information on spill reports made to federal authorities including the U.S. EPA, U.S. Coast Guard, National Response Center (NRC), and Department of Transportation.

The subject property is not listed on the ERNS database.

5.1.2 State Environmental Record Sources

ASTM E 1527-05 requires review of the following state databases.

5.1.2.1 State-Equivalent CERCLIS Hazardous Waste Sites (SHWS; 1.0 mile)

The State Hazardous Waste database lists potential or confirmed hazardous substance release properties.

There are no facilities listed on this database within 1.0 mile of the subject property.

According to FSTC there is no Tribal Equivalent CERCLIS listing maintained by the State of Florida.

5.1.2.2 State-Equivalent SWF/LF, State Landfill (SWIS; 0.5 mile)

This database is an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

There are no properties listed within 0.5 mile of the subject property. According to FSTC, there is no tribal equivalent SWF/LF listing for the State of Florida.

5.1.2.3 State Leaking Underground Storage Tank Database (LUST; 0.5 mile)

The LUST database is a list of reported leaking UST incidents. According to FSTC there is no Tribal Equivalent LUST listing maintained by the State of Florida.

There are eleven facility listed within 0.5 mile of the subject property.

Express Mart #121 is located at 1212 South Bay Street, approximately 0.10 miles northeast of the subject site. In 2000, enforcement actions were taken against the Express Mart 121 concerning release detection. According to the public record, resolution of the matter was conducted and the site was brought into compliance.

On February 26, 2008, Global Engineering & Construction, Inc. submitted an Underground Storage Tank Closure and Closure Report for the site. According to this report, petroleum impacted soil with an organic vapor reading greater than 10 parts per million was not identified. No soil contamination was identified from the single soil sample collected during the closure activities. A groundwater sample was not collected. Because a review letter for the closure report could not be located for this site, ECT does not know the current status of the site.

A discharge occurred at the **Lake County School Board Eustis Heights Elementary School**, located at 301 West Taylor Avenue, approximately 0.20 miles west of the subject site. On August 30, 1988 and was found eligible for state funded cleanup under the Early Detection Incentive program. The groundwater plume map dated November 2006 indicated that a groundwater plume exists on the north and south side of West Atwater Avenue. In February 2011, the FDEP requested a Level Two Remedial Action Plan. Based on the known groundwater plume limits, this facility is not likely to pose a significant threat to the environmental quality of the subject site.

The **Cumberland Farms #0969** is located at 1701 South Bay Street, approximately 0.18 miles to the southeast of the subject site. Cumberland Farms received a review letter from the FDEP for a site assessment report on January 31, 2011. This letter approved the assessment and concurred with the recommendations to abandon all existing monitoring wells. This facility is not likely to pose a significant threat to the environmental quality of the subject site.

The **Phillips 66** site is located at 1911 South Bay Street, approximately 0.30 miles to the southeast of the subject site. According to the Phase II ESA conducted in January 2011

for the Phillips 66 site, groundwater contamination exists on the property. The Phase II ESA documented groundwater flow to the southeast. The groundwater plume extends from the corner of South Bay Street and East Pinehurst Avenue southeast to Idlewild Avenue. Due to the location of the property, this facility is not likely to pose a significant threat to the environmental quality of the subject site.

The **Former H. Jennings ROU Inc.** site is located at the intersection of Stevens Avenue and Smith Street, approximately 0.31 miles to the northwest of the subject site. A discharge reporting form was submitted in February 2006 for the Former H. Jennings ROU Inc. site. On August 17, 2006, Nick Guerrero, Site Manager with the Seminole County, Department of Public Safety, Petroleum Cleanup Program, submitted a memo to the FDEP to request a change in the cleanup status of the site to no cleanup required. This request was based on results from the soil and groundwater confirmation sampling that occurred during the tank removals. All results were below cleanup target levels. Based on this information, the facility is not likely to pose a significant threat to the environmental quality of the subject site.

Roberts Oil Company is located at 600 West Atwater Avenue, approximately 0.34 miles west of the subject site. A discharge occurred at the facility on January 25, 2005 during the closure of the UST system on-site. The Seminole County Department of Public Safety received a Closure Report in May 2005. Seminole County requested additional sampling at the site in a letter dated June 17, 2005. As of April 8, 2006, no response has been received by Seminole County. No further information could be found in the public record. Due to the location of this facility, it is not likely to pose a significant threat to the environmental quality of the subject site.

Bryan Imports, Inc. is located at 825 Highway 19A, approximately 0.37 miles northeast of the subject site. A discharge occurred at the facility on April 15, 1988 and the site was eligible for state administered funding under the Early Detection Incentive Program. According to a review of readily available regulatory information, the site is currently scored a 7 and is awaiting funding. Due to the distance from the subject site, this facility is not likely to pose a significant threat to the environmental quality of the subject site.

Citgo Martin Oil #62 is located at 2107 South Bay Street, approximately 0.41 miles southeast of the subject site. Discharges occurred on the site on October 11, 2005 and July 16, 2008. The FDEP approved the December 17, 2010 First Quarter Natural Attenuation Monitoring (NAM) Report and recommended the continuation of the groundwater sampling for an additional quarter. Based on the distance from the subject site, this facility is not likely to pose a significant threat to the environmental quality of the subject site.

National Guard Armory is located at 605 South Bay Street, approximately 0.47 miles to the northeast of the subject site. A discharge was reported on October 30, 1995 during the closure of a waste oil tank. Impacted soils were removed from the site and no groundwater impacts were observed. An FDEP letter, dated May 21, 1996 indicated that no further action was required on the site. This facility is not likely to pose a significant threat to the environmental quality of the subject site.

Chevron #4041 is located at 310 West Badger Avenue, approximately 0.48 miles northwest of the subject site. A discharge occurred at the facility on November 17, 1988 and the site was eligible for state administered funding under the Early Detection Incentive Program. According to a review of readily available regulatory information, the site is currently scored a 30 and is awaiting funding. Based on the location of this facility, it is not likely to pose a significant threat to the environmental quality of the subject site.

Harris Oil and Gas is located at the intersection of Badger Avenue and the railroad tracks, approximately 0.48 miles northwest of the subject site. A discharge occurred at the facility on December 28, 1995 and the site was eligible for state administered funding under the Abandoned Early Detection Incentive Program. According to a review of readily available regulatory information, the site is currently scored a 30 and is awaiting funding. Based on the location of this facility, it is not likely to pose a significant threat to the environmental quality of the subject site.

5.1.2.4 State Registered Underground Storage Tank (UST; Property and Adjoining Properties)

This database contains listings for current UST sites.

There are two properties listed within 0.25 mile of the subject property: **Express Mart 121**, 1212 South Bay Street and **Lake County School Board Eustis Heights Elementary School**, 301 West Taylor Avenue. Two 12,000 gallon unleaded USTs are in use at the Express Mart 121, while all tanks have been removed from the Lake County School Board Eustis Heights Elementary School.

Both sites are discussed further in the Section 5.1.2.3.

5.1.2.5 Other Database (OTHER; 0.5 mile)

The FDEP Sinkholes list is a database of sinkholes from the Florida Geological Survey of Sinkholes. The Drycleaners list is a database of drycleaning facilities registered with the FDEP. Data is taken from the Storage Tank and Contamination Monitoring database, the registration repository of drycleaner facility data. The Cattle Dipping Vat (CDV) list is a database of vats that were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides, such as DDT, were also widely used. This is a static list from 1910 through the 1950s.

No sites were listed as OTHER on the FSTC report.

5.1.2.6 State Institutional Control/Engineering Control Registries (Site Only)

This database contains registry entries for institutional and engineering controls.

There are no properties listed within 0.5 mile of the subject property.

According to FSTC, there is no tribal equivalent Institutional Control/Engineering Control listing for the State of Florida.

5.1.2.7 State Voluntary Cleanup Sites (0.5 mile)

This database contains listings for current voluntary cleanup sites.

There are no properties listed within 0.5-mile of the subject property.

According to FSTC, there is no tribal equivalent Voluntary Cleanup Listing for the State of Florida.

5.1.2.8 State and Tribal Brownfield Sites (0.5 mile)

This database contains listings for current brownfield sites. According to FSTC, there is no tribal equivalent Brownfield Listing for the State of Florida.

No sites are listed on the FSTC report.

5.2 Additional Environmental Record Sources

Additional database records were provided in the database search report. These are summarized in the report, presented as **Appendix B**. Neither the subject property nor abutting properties are identified in the additional databases.

5.3 Physical Setting Source(s)

The USGS 7.5-Minute Series of the Eustis, Florida quadrangle map (dated 1966, photorevised 1980) was reviewed. The subject site appears to be residential property. Elevations on the subject property range from approximately 105 to 110 feet above mean sea level (ft-msl).

5.4 Historical Use Information on the Property

To evaluate historical use of the property, ECT reviewed readily available topographic maps, aerial photographs, street directories, and fire insurance maps.

5.4.1 Topographic Maps

The USGS 7.5-Minute Series of the Eustis, Florida quadrangle map (dated 1966, photorevised 1980) was reviewed. The elevation of the subject property is approximately 105 feet above mean sea level (ft-msl).

5.4.2 Aerial Photographs

Historical aerial photographs were reviewed from Lake County Public Works for the years 1941, 1958, 1979, 1984, and 1990. The Lake County photographs were good quality, black-and-white photographs, with the exception of 1941 which was grainy and of poor quality. In addition, historical aerial photographs were reviewed from the Florida Department of Transportation (FDOT) Department Surveying and Mapping Office for the years 1972 and 1995. The FDOT photographs consisted of low-altitude, black-and-white photographs. Brief descriptions of the subject property and vicinity, as observed in the aerial photographs, are presented below.

In the 1941 aerial photograph, a structure is visible on the western portion of the subject property. The remaining portion of the subject site appears undeveloped. Multiple roadways are evident in the surrounding area, including Atwater Avenue to the north and South Bay Street to the east of the subject site. The surrounding area appears to be utilized for residential and agricultural purposes.

In the 1958 aerial photograph, the subject property appears similar when compared to the previously reviewed aerial photograph. Various structures are visible in the area including the motel to the south, and small structures to the north, northeast, east and west of the property.

In the 1972 aerial photograph, the subject property and surrounding area appears similar when compared to the previously reviewed aerial photograph.

In the 1979 aerial photograph, a structure is visible on the eastern portion of the site. The remaining area appears similar to the previously reviewed aerial photograph.

In the 1984 aerial photograph, the subject site appears similar when compared to the previously reviewed aerial photograph. The lot to the east of the subject site has been cleared.

In the 1990 aerial photograph, the subject site and surrounding area appear similar when compared to the previously reviewed aerial photograph.

In the 1995 aerial photograph, the subject site and surrounding area appear similar when compared to the previously reviewed aerial photograph.

5.4.3 Street Directories

Street directories were reviewed for the years 1960, 1963, 1969, 1972, 1977, 1982, 1987, 1992, 1997, 2002, and 2007.

From 1982 through 1997, the subject site was listed as Florida TV, Inc. No listing for the subject property was observed in the 2002 or 2007 street directories.

From 1960 through 1972, Landcaster Fuel Company/Propane Gas Services was located at 1310 South Bay Street.

From 1963 through 1987, Roberts & Associates, Inc./Humble Oil and Refining Company/Ashley T. Wigelsworth Oil Distributors was located at 600 Atwater Street.

From 1972 through 1992 and again in 2007, the Stoller Chemical Company of Florida/Dixie Agricultural Chemical Company was located at 699/700 Atwater Avenue.

From 1997 through 2007, Sunshine Materials Inc./Southdown Inc. Concrete/Cemex was located at 649 Atwater Avenue.

From 1997 to present, Autozone is located at 1415 South Bay Street.

5.4.4 Fire Insurance Maps

No Sanborn fire insurance maps were available for the subject property or surrounding area.

5.5 Historical Use Information on Adjoining Properties

To evaluate historical use of the adjoining properties, ECT reviewed readily available topographic maps, aerial photographs, street directories, and fire insurance maps.

5.5.1 Topographic Maps

The USGS 7.5-Minute Series of the Eustis, Florida quadrangle map (dated 1966, photorevised 1980) was reviewed. The elevation of the subject property is approximately 105 feet above mean sea level (ft-msl).

5.5.2 Aerial Photographs

Historical aerial photographs were reviewed from Lake County Public Works for the years 1941, 1958, 1979, 1984, and 1990. The Lake County photographs were good quality, black-and-white photographs, with the exception of 1941 which was grainy and of poor quality. In addition, historical aerial photographs were reviewed from the Florida Department of Transportation (FDOT) Department Surveying and Mapping Office for the years 1972 and 1995. The FDOT photographs consisted of low-altitude, black-and-white photographs. Brief descriptions of the subject property and vicinity, as observed in the aerial photographs, are presented below.

In the 1941 aerial photograph, a structure is visible on the western portion of the subject property. The remaining portion of the subject site appears undeveloped. Multiple roadways are evident in the surrounding area, including Atwater Avenue to the north and South Bay Street to the east of the subject site. The surrounding area appears to be utilized for residential and agricultural purposes.

In the 1958 aerial photograph, the subject property appears similar when compared to the previously reviewed aerial photograph. Various structures are visible in the area including the motel to the south, and small structures to the north, northeast, east and west of the property.

In the 1972 aerial photograph, the subject property and surrounding area appears similar when compared to the previously reviewed aerial photograph.

In the 1979 aerial photograph, a structure is visible on the eastern portion of the site. The remaining area appears similar to the previously reviewed aerial photograph.

In the 1984 aerial photograph, the subject site appears similar when compared to the previously reviewed aerial photograph. The lot to the east of the subject site has been cleared.

In the 1990 aerial photograph, the subject site and surrounding area appear similar when compared to the previously reviewed aerial photograph.

In the 1995 aerial photograph, the subject site and surrounding area appear similar when compared to the previously reviewed aerial photograph.

5.5.3 Street Directories

Street directories were reviewed for the years 1960, 1963, 1969, 1972, 1977, 1982, 1987, 1992, 1997, 2002, and 2007.

From 1982 through 1997, the subject site was listed as Florida TV, Inc. No listing for the subject property was observed in the 2002 or 2007 street directories.

From 1960 through 1972, Landcaster Fuel Company/Propane Gas Services was located at 1310 South Bay Street.

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From 1997 through 2007, Sunshine Materials Inc./Southdown Inc. Concrete/Cemex was located at 649 Atwater Avenue.

From 1997 to present, Autozone is located at 1415 South Bay Street.

5.5.4 Fire Insurance Maps

No Sanborn fire insurance maps were available for the subject property or surrounding area.

6.0 SITE RECONNAISSANCE

On March 10, 2011, a representative of ECT performed a site reconnaissance of the subject property to observe general site conditions and to identify visible evidence of RECs. Photographs taken during ECT's site inspection are provided in **Appendix C**. The resumes of key ECT personnel involved in the project are provided in **Appendix D**.

6.1 Methodology and Limiting Conditions

The methodology for the site visit included observing the ground surface of the subject property.

6.2 General Site Setting

6.2.1 Current Use(s) of the Property

The subject property consists of one residential structure, one commercial structure, and a paved parking area. Currently, the residential structure is occupied, while the commercial structure is vacant.

6.2.2 Past Use(s) of the Property

It appears the western portion of the subject property has been utilized as residential housing since 1936, while the commercial building was built in 1980. The commercial facility was previously utilized as a television repair facility and a restaurant.

6.2.3 Current Uses of Adjoining Properties

The adjoining properties are currently for residential and commercial uses.

6.2.4 Past Uses of Adjoining Properties

According to the aerial photographs, the surrounding area was utilized for a mixture of residential and agricultural uses from before 1941 to before 1958. The motel and other commercial structures were built before 1958.

6.2.5 Current or Past Uses in the Surrounding Area

According to the aerial photographs, the surrounding area was utilized for a mixture of residential and agricultural uses from before 1941 to before 1958. The motel and other commercial structures were built before 1958.

6.2.6 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

The USGS 7.5-Minute Series of the Eustis, Florida quadrangle map (dated 1966, photorevised 1980) was reviewed. The elevation of the subject property is approximately 105 feet above mean sea level (ft-msl).

Groundwater in the site vicinity and in Lake County occurs within the unconfined surficial aquifer, secondary artesian aquifers, and the semi-confined Floridan aquifer. The aquifers beneath the site have been classified as G-II by the Florida Environmental Regulation Commission. The surficial and Floridan aquifers are hydraulically separated by the Hawthorn Group. The Hawthorn Group includes secondary artesian aquifers interbedded between semi-confining layers. The three aquifers are hydraulically separated by the Hawthorn Group and within the Hawthorn Group. The degree of isolation depends upon three factors: (1) the occurrence of low permeability clay beds which compose the semi-confining unit; (2) the respective hydraulic head within each aquifer; and (3) the resulting hydraulic gradient between the aquifers.

The unconfined (non-artesian) aquifer occurs within the Pleistocene to Recent age deposits. This aquifer is recharged primarily by direct rainfall, but may receive some recharge by upward leakage through the semi-confining unit from the underlying Floridan aquifer in areas where the potentiometric surface of the semi-confined aquifer is higher than the water table surface. The surficial aquifer provides limited quantities of water, used mainly for livestock, irrigation, and limited domestic supply. The groundwater is generally less mineralized than water from the underlying aquifers; however, because of the high porosity of the surficial sands and the relatively shallow water table, the surficial aquifer is inherently more susceptible to becoming contaminated.

Two artesian aquifers lie beneath this part of Lake County: the Floridan aquifer and the secondary artesian aquifer. The secondary artesian aquifer is contained within the Hawthorn Group and within other undifferentiated sediments. The quality of water within the secondary aquifer varies with location, depth, and local hydraulic and geologic conditions. The somewhat impervious overlying beds of the Hawthorn Group impede the downward migration of pollutants into this aquifer.

In this part of central Florida, the Floridan aquifer includes the Lake City Limestone, the Avon Park Limestone, the Ocala Group, and lower portions of the Hawthorn Group. The Floridan aquifer contains numerous solution cavities and channels that are often interconnected, facilitating the movement of water within the aquifer. It is recharged where the local water table is higher than the potentiometric surface of the Floridan aquifer and the material (usually Hawthorn sediments) between the Floridan and the water table is either absent or permeable enough to allow downward migration of water into the aquifer. Annual rainfall is responsible for the majority of groundwater recharge in Central Florida and the site vicinity. Lesser amounts enter the Floridan aquifer by subsurface flow from outside the region.

6.3 Exterior Observations

The following items were looked for, or identification was attempted, as indicated in the ASTM standard.

6.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses

The presence of hazardous substances or petroleum products in connection with the subject property was investigated. No hazardous substances or petroleum products were observed.

6.3.2 Storage Tanks

Aboveground storage tanks (ASTs), USTs or vent pipes, fill pipes, or access ways indicating USTs were looked for during the site visit. No evidence of USTs was observed onsite.

6.3.3 Odors

The subject property was checked for strong, pungent, or noxious odors and their sources during the site visit. No odors were encountered on the subject site.

6.3.4 Pools of Liquid

Standing surface water and pools or sumps containing liquids likely to contain hazardous substances or petroleum products were looked for during the site visit. No standing surface water, pools, or sumps were observed onsite.

6.3.5 Drums

Storage drums were looked for during the site visit. No storage drums were observed onsite. No grease traps were observed on the subject property.

6.3.6 Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)

No hazardous substances or petroleum product containers were observed.

6.3.7 Unidentified Substance Containers

Open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products were looked for during the site visit. No such containers were observed.

6.3.8 PCBs

Electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were looked for during the site visit. As indicated in the ASTM standard, fluorescent light ballasts (which may or may not be present onsite) were not evaluated. No indications of PCBs were observed on the subject site.

6.3.9 Pits, Ponds, or Lagoons

Pits, ponds, or lagoons on the property were looked for during the site visit. Pits, ponds, or lagoons on properties adjoining the property were looked for to the extent they were visually and/or physically observable from the subject property. No pits, ponds, or lagoons were observed.

6.3.10 Stained Soil or Pavement

Areas of stained soil or pavement were looked for during the site visit. No staining was identified on the ground surface.

6.3.11 Stressed Vegetation

No stressed vegetation (from other than insufficient water) was identified on the subject property.

6.3.12 Solid Waste

Areas that are apparently filled or graded by non-natural causes (or filled of unknown origin) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal were looked for during the site visit. No debris or mounds were observed.

6.3.13 Wastewater

Wastewater or other liquids (including stormwater) or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the subject property were looked for during the site visit. No wastewater was observed discharging to drains or underground injection systems.

6.3.14 Wells

Wells, including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells, were looked for during the site visit. No wells were observed on the subject site.

6.3.15 Septic Systems

Indications of onsite septic systems were looked for during the site visit. No septic systems were observed on the site.

6.3.16 Other

No other observations were noted.

6.4 Interior Observations

The following items were looked for, or identification was attempted, as indicated in the ASTM standard. Full access was provided to the onsite structures.

6.4.1 Heating/Cooling

The means of heating and cooling the buildings on the property was identified during the site visit. The commercial and residential buildings were equipped with an electrical air conditioning unit.

6.4.2 Stains or corrosion

Areas of stains or corrosion of floors, walls, or ceilings were looked for during the site visit. No such areas were observed.

6.4.3 Drains and Sumps

Floor drains and sumps were looked for during the site visit. A drain was observed in the commercial building underneath the sink area.

6.4.4 Hazardous Substances and Petroleum Products with Identified Uses

The presence of hazardous substances or petroleum products was investigated. No hazardous substances or petroleum products were found.

6.4.5 Storage Tanks

ASTs, USTs, vent pipes, or fill pipes were looked for during the site visit. No storage tanks were observed in the interior of the structures.

6.4.6 Odors

ECT checked for strong, pungent, or noxious odors and their sources during the site visit. No noticeable odors were present.

6.4.7 Pools of Liquid

Standing surface water and pools or sumps containing liquids likely to contain hazardous substances or petroleum products were looked for during the site visit. No such areas were observed.

6.4.8 Drums

No storage drums were noted in the interior portions of the buildings.

6.4.9 Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)

Hazardous substances and petroleum products containers were looked for during the site visit. None were observed within the building interiors.

6.4.10 Unidentified Substance Containers

Open or damaged containers of unidentified substances suspected of being hazardous substances or petroleum products were looked for during the site visit. No open or damaged containers were observed in the building interiors.

6.4.11 PCBs

Electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were looked for during the site visit. As indicated in the ASTM standard, fluorescent light ballasts (which may or may not be present onsite) were not evaluated. No electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were identified inside the structures during the investigation.

7.0 INTERVIEWS

7.1 Interviews with Site Contacts

An interview was conducted with Mr. Ralph Simons, owner of the subject property and Mr. Kenneth McGrath, buyer. The information provided is included in Section 4.

7.2 Interviews with Local Government Officials

Lake County Department of Conservation and Compliance, Seminole County Petroleum Storage Tanks Bureau, and the FDEP Central District, Petroleum Cleanup were contacted for information on various petroleum sites in the area. The information is provided in summarized in Section 5.0.

8.0 FINDINGS

This section identifies known or suspect RECs and other findings discovered during the phase I ESA investigations.

8.1 Known or Suspect RECs

This assessment has revealed evidence of a suspected REC in connection with the Express Mart #121, located at 1212 South Bay Street. On February 26, 2008, Global Engineering & Construction, Inc. submitted an Underground Storage Tank Closure and Closure Report for the site. According to this report, petroleum impacted soil with an organic vapor reading greater than 10 parts per million was not identified. No soil contamination was identified from the single soil sample collected during the closure activities. A groundwater sample was not collected. Because a review letter for the closure report could not be located for this site, ECT does not know the current status of the site.

8.2 Historical RECs

This assessment has revealed evidence of a historical REC in associated with the former use of the subject property as a television repair facility. From 1982 through 1997, Florida TV, Inc. used the subject site as a repair facility. Due to the possible use of cleaning fluids and solvents and activities such as CPU repair and soldering, the former usage of the site is considered a REC.

8.3 De Minimis Conditions

No *de minimis* conditions were identified in connection with the subject property.

9.0 OPINION

This section includes the environmental professional's opinion(s) of the impact on the property of conditions identified in the findings section.

The phase I ESA investigation revealed evidence of RECs in associated with the former use of the subject property as a television repair facility and the Express Mart #121, located at 1212 South Bay Street.

10.0 CONCLUSIONS

ECT has performed a phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of the property located at 1400 South Bay Street in Eustis, Lake County, Florida, 32726. Any exceptions to, or deletions from, this practice are described in Section 10 of this report.

The phase I ESA investigation revealed evidence of RECs in associated with the former use of the subject property as a television repair facility and the Express Mart #121, located at 1212 South Bay Street.

11.0 DEVIATIONS/DATA GAPS

The following deviations from the ASTM practice were identified:

- The recently-enacted All Appropriate Inquiry standard and ASTM practice indicates that the Tribal equivalent of the CERCLIS, SWF/LF, Institutional Control/Engineering Controls, Voluntary Cleanup, LUST, and Brownfields databases be searched. It is the understanding of ECT that these databases are not available for the State of Florida.
- Aerial photographs were not available earlier than 1941. This constitutes a data gap since the 1941 aerial photograph shows the subject property as developed.

12.0 ADDITIONAL SERVICES

No additional services outside of the scope of work (i.e., asbestos, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and biological agents) were provided for this investigation.

13.0 REFERENCES

FirstSearch Technology Corporation, Environmental Database Report, Target Property: 1400 South Bay Street, Eustis, FL 32726. March 3, 2011.

Florida Department of Environmental Protection. Online Environmental Database. <http://dwmedms.dep.state.fl.us/Oculus/servlet/login>

Florida Department of Transportation (FDOT) Department Surveying and Mapping Office. Aerial Photograph review.

Lake County Property Appraisers Website. Property Cards. March 3, 2011.

Lake County Public Works Department, Florida. Aerial Photograph review.

Leesburg Central Library, Leesburg, Florida. City Directory review.

U.S. Geological Survey, 7.5-Minute Series Topographic Map, Eustis, Florida. Dated 1966, photorevised 1980.

14.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.


I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312. I, have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Report Prepared By:



Amy L. Guilfoyle
Senior Associate Scientist

Report Reviewed and Approved By:



David L. Kraus
Principal Scientist

FIGURES

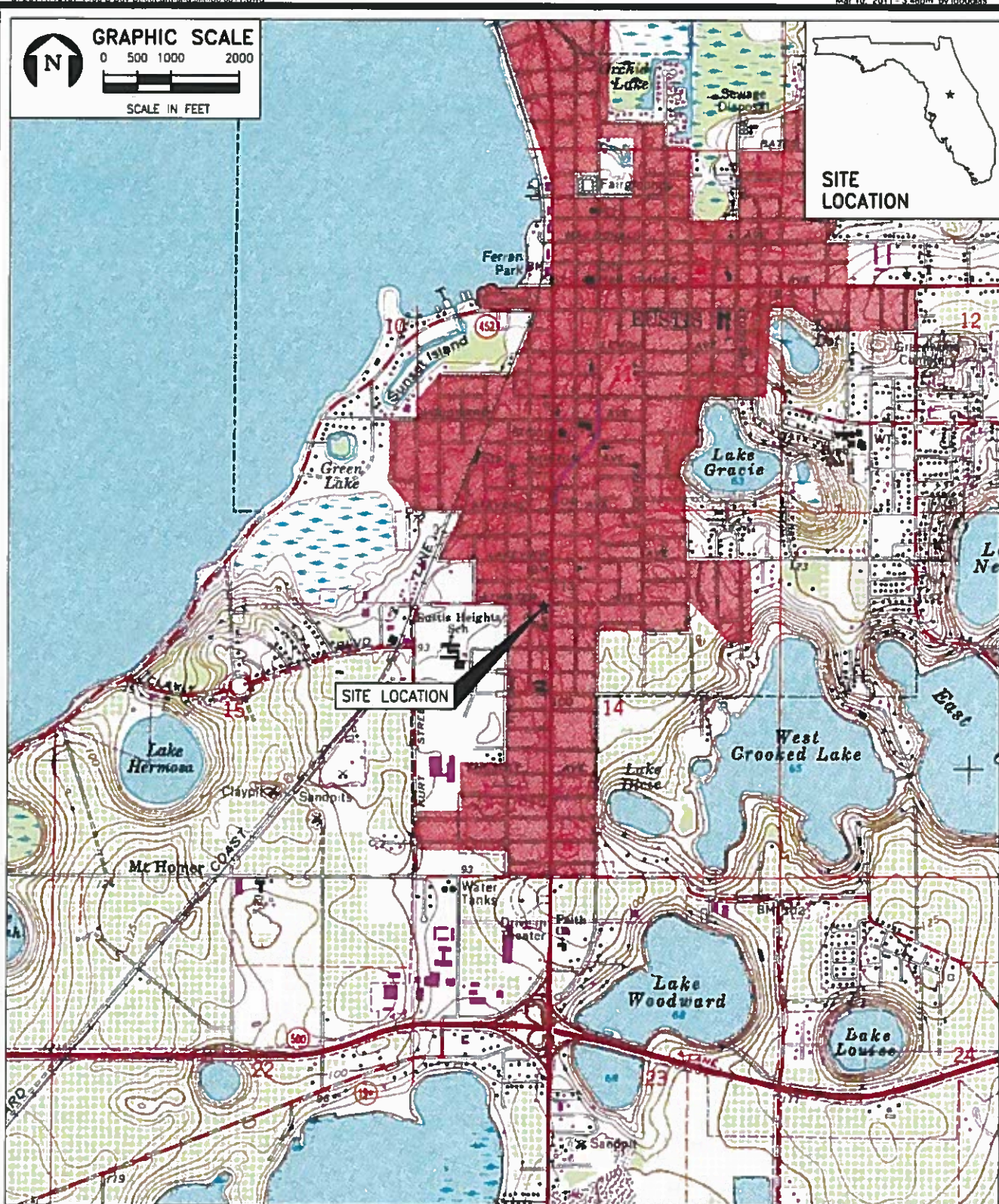


FIGURE 1

SITE LOCATION MAP

1400 S BAY ST. EUSTIS, FL 32726

Sources: USGS Quad: Eustis, FL., 1997; ECT, 2011

ECT

Environmental Consulting & Technology, Inc.



FIGURE 2
SITE MAP
1400 S BAY ST.

Source: Bing Maps, 2011; ECT, 2011

ECT
Environmental Consulting & Technology, Inc.

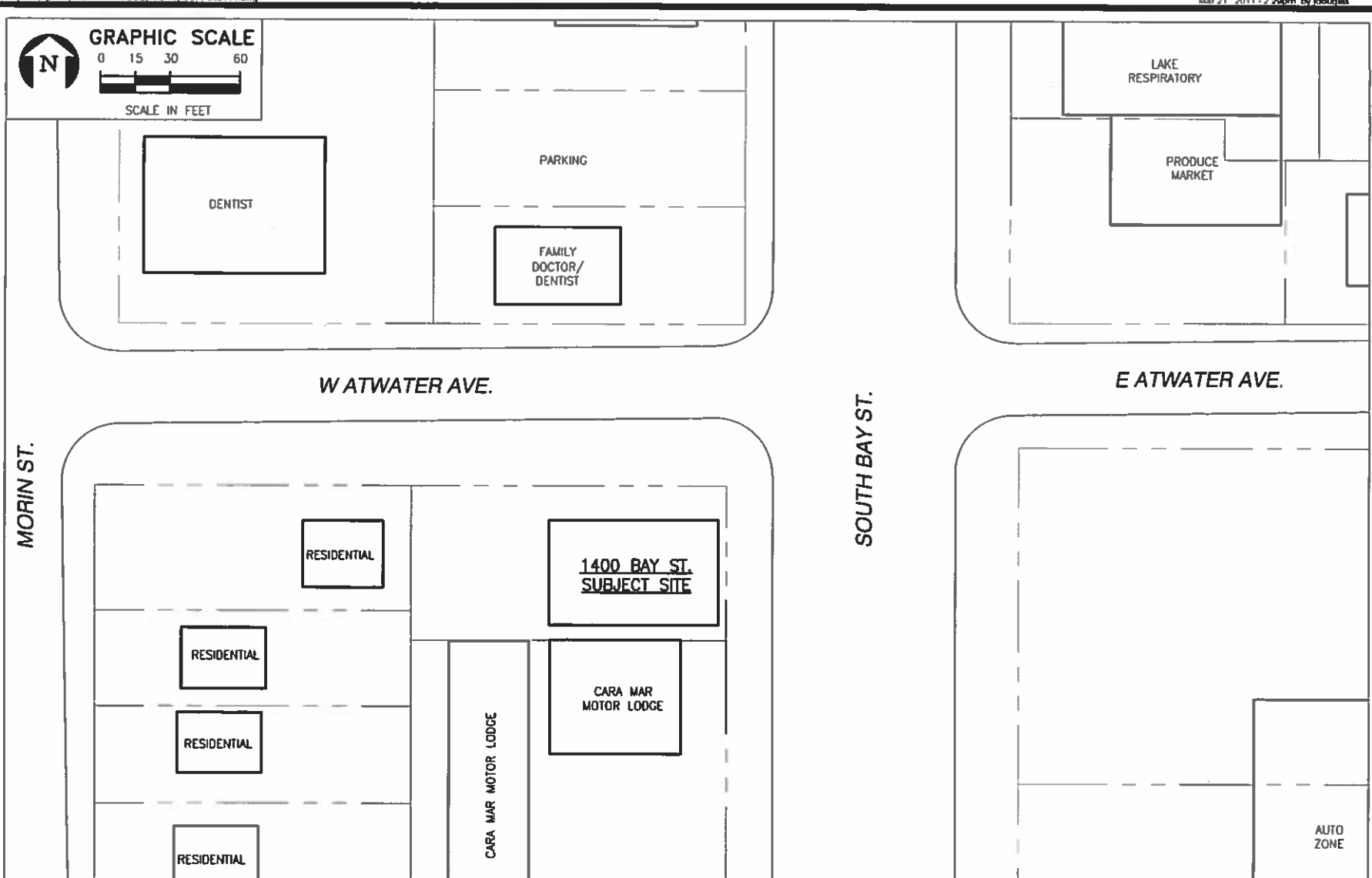


FIGURE 3
VICINITY MAP
1400 S BAY ST.

Source: ECT, 2011

ECT
Environmental Consulting & Technology, Inc.

ATTACHMENT A

Property Details

General Information	Land Data	Residential Buildings	Commercial Buildings	Misc. Improvements
Sales History	Value	Map of Property	Tax	TRIM Notice

General Information

Alternate Key:	1321697	Parcel:	14-19-26-180100011900
Owner Name:	SIMONS RALPH G	Millage:	000E (Eustis) : 20.0905
Owner Address:	6330 SAILBOAT AVE TAVARES, FL 32778	Property Location:	1400 SOUTH BAY ST EUSTIS FL 32726
Legal Description:	EUSTIS, QUAYLE'S GOLF LINK SUB NO 2 LOTS 119, 120 PB 5 PG 50 ORB 3039 PG 2356		

Land Data

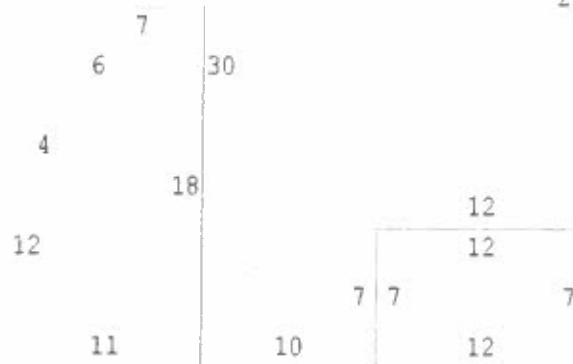
Line	Land Use	Frontage	Depth	Notes	No. Units	Type	Class Value	Just Value
1	STORES / RES. COMBO (1200)	0	0		8712	SF	\$0.00	\$69,696.00

Residential Building(s)

Building 001 Summary									
Year Built:	1936	Section No.	Section Type	Ext. Wall Type	No. Stories	Floor Area	Finished Attic	Basement	Finished Color
Ground Floor Area:	750								
Bathrooms (2 Fix):	0	1	FINISHED LIVING AREA (001)	Wood	1	576	N	0%	0%
Bathrooms (3 Fix):	1	2	ENCLOSED PORCH (EPA) (001)	Wood	1	84	N	0%	0%
Bathrooms (4 Fix):	0	3	FINISHED LIVING AREA (001)	Wood	1	174	N	0%	0%
Bathrooms (Ex Fix):	0								
Bedrooms:	0								
Built-In Kitchens:	0								
Fireplaces:	0								

22

23


[print drawing](#) [view fullscreen](#)

Commercial Building(s)

Building 3

Summary		Section(s)							
Year Built:	1980	Section No.	Section Type	Wall Height	No. Stories	Ground Floor Area	Basement	Basement Finished	Map Color
Ground Floor Area:	2720	1	FINISHED LIVING AREA (FLA)	8	1	2040	0%	0%	
Bathrooms (2 Fix):	2		Interior Finish			Percent		Sprinkler	A/C
Bathrooms (3 Fix):	0	(21C)			100.00 %		No		Yes
Bathrooms (4 Fix):	0	2	FINISHED LIVING AREA (FLA)	10	1	680	0%	0%	
Bathrooms (Ex Fix):	0		Interior Finish			Percent		Sprinkler	A/C
Elevators:	0	(48C)			100.00 %		No		No
Elevator Landings:	0								
Escalators:	0								
Residential Units:	0								
Kitchens:	0								
Fireplaces:	0								
Exterior Walls:									

Concrete Block
Stucco : 100.00 %

 print drawing  view fullscreen

Miscellaneous Improvements

No.	Type	No. Units	Unit Type	Year	Depreciated Value
0001	PAVING (PAV)	2070	SF	2007	\$2,817.00
0002	PAVING (PAV)	92	SF	2007	\$260.00

Sales History

O.R. Book / Page	Sale Date	Instrument	Q/U	Vac./Imp.	Sale Price
<u>0681 / 0112</u>	1/1/1994	WD	U	I	\$0.00
<u>2831 / 0669</u>	5/11/2005	QC	U	I	\$50,900.00
<u>3039 / 2356</u>	12/15/2005	WD	Q	I	\$350,000.00

Value

Total Just Value:	\$229,477.00
Total Exempt Value: -	\$0.00
Total Taxable Value: =	\$229,477.00
Millage Rate: <input type="text" value="0.0200905"/> x	0.0200905
Base Ad-Valorem Tax: =	\$4,610.31
Non-Exempt School Levies: +	\$0.00
Estimated Ad-Valorem Tax: =	\$4,610.31

* The just values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes. The amounts shown may not include all exemptions. The estimated tax totals do not reflect Non-Ad Valorem assessments. (Fire Fees, Solid Waste, etc.) Please consult the Tax Collector for actual taxation amounts.

Truth In Millage (TRIM) Notice

- [Notice of Proposed Property Taxes & Proposed or Adopted Non-Ad Valorem Assessments](#)
- [TRIM Notice Informational Supplement](#) (195 KB)

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ATTACHMENT B

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:

1400 S BAY ST

EUSTIS FL 32726

Job Number: 03032011

PREPARED FOR:

ECT

8651 Commodity Circle

Orlando, FL 32819

03-03-11



Tel: (407) 265-8900

Fax: (407) 265-8904

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***Environmental FirstSearch
Site Information Report***

Request Date: 03-03-11
Requestor Name: Amy Guilfoyle
Standard: AAI

Search Type: COORD
Job Number: 03032011
Filtered Report

Target Site: 1400 S BAY ST
EUSTIS FL 32726

Demographics

Sites: 17	Non-Geocoded: 1	Population: NA
Radon: NA		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-81.685791	-81:41:9	Easting: 433099.214
Latitude:	28.839973	28:50:24	Northing: 3190274.066
Elevation:	108		Zone: 17

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

TOTAL: 17 **GEOCODED:** 16 **NON GEOCODED:** 1 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTA BIA-32726	UNKNOWN FL 32726	NON GC	N/A	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 9 **DIST/DIR:** 0.10 NE **ELEVATION:** 114 **MAP ID:** 2

NAME: EXPRESS MART 121
ADDRESS: 1212 S BAY ST
EUSTIS FL 32726
LAKE
CONTACT:
SOURCE: FL DEP

REV: 1/4/11
ID1: 358510008
ID2: 8510008.00
STATUS: FACILITY OPEN
PHONE: (352) 483-9387

DISCHARGE INFORMATION

DISCHARGE DATE: 12/28/1988
COMBINED:
SCORE:
SCORE DATE:
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: NREQ - CLEANUP NOT REQUIRED
INFO SOURCE: E - EDI
OTHER SOURCE:
SITE MANAGER:
MANAGER END DATE:
TANK OFFICE:

LST INFORMATION

TOTAL NUMBER OF TANKS: 5
FACILITY TYPE: A - RETAIL STATION
DEP CO: N

TANK INFORMATION

TANK ID:	1	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1973	STAT DATE:	21-APR-2008

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	2	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1973	STAT DATE:	21-APR-2008

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	3	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-MAY-1990	STAT DATE:	21-APR-2008

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 9 **DIST/DIR:** 0.10 NE **ELEVATION:** 114 **MAP ID:** 2

NAME: EXPRESS MART 121
ADDRESS: 1212 S BAY ST
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358510008
ID2: 8510008.00
STATUS: FACILITY OPEN
PHONE: (352) 483-9387

CONTACT:
SOURCE: FL DEP

MONITORING INFORMATION

<u>TANK ID:</u>	<u>DESCRIPTION:</u>
4	3 - ELECTRONIC MONITOR PIPE SUMPS
4	5 - ELECTRONIC MONITOR DISPENSER LINERS
4	F - MONITOR DBL WALL TANK SPACE
4	H - MECHANICAL LINE LEAK DETECTOR
4	L - AUTOMATIC TANK GAUGING - USTS
5	3 - ELECTRONIC MONITOR PIPE SUMPS
5	5 - ELECTRONIC MONITOR DISPENSER LINERS
5	F - MONITOR DBL WALL TANK SPACE
5	H - MECHANICAL LINE LEAK DETECTOR
5	L - AUTOMATIC TANK GAUGING - USTS

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

UST

SEARCH ID: 3 **DIST/DIR:** 0.10 NE **ELEVATION:** 114 **MAP ID:** 2

NAME: EXPRESS MART 121
ADDRESS: 1212 S BAY ST
EUSTIS FL 32726
LAKE
CONTACT: FARES F ANIS
SOURCE: FL DEP

REV: 1/4/11
ID1: 358510008
ID2: 8510008.00
STATUS: OPEN
PHONE: (352) 483-3778

TYPE: A - RETAIL STATION

TANK ID:	5	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-FEB-2008	STAT DATE:	01-FEB-2008

TK STAT: U - IN SERVICE
CAPACITY(GAL): 12000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

4	A - BALL CHECK VALVE
4	F - FIBERGLASS CLAD STEEL
4	M - SPILL CONTAINMENT BUCKET
4	R - DOUBLE WALL - TANK JACKET
5	A - BALL CHECK VALVE
5	F - FIBERGLASS CLAD STEEL
5	L - COMPARTMENTED
5	M - SPILL CONTAINMENT BUCKET
5	N - FLOW SHUT-OFF
5	R - DOUBLE WALL - TANK JACKET

PIPING INFORMATION

<u>TANK ID:</u>	<u>DESCRIPTION:</u>
4	C - FIBERGLASS
4	F - DOUBLE WALL
4	J - PRESSURIZED PIPING SYSTEM
4	K - DISPENSER LINERS
5	C - FIBERGLASS
5	F - DOUBLE WALL
5	J - PRESSURIZED PIPING SYSTEM
5	K - DISPENSER LINERS

MONITORING INFORMATION

<u>TANK ID:</u>	<u>DESCRIPTION:</u>
4	3 - ELECTRONIC MONITOR PIPE SUMPS
4	5 - ELECTRONIC MONITOR DISPENSER LINERS
4	F - MONITOR DBL WALL TANK SPACE
4	H - MECHANICAL LINE LEAK DETECTOR
4	L - AUTOMATIC TANK GAUGING - USTS
5	3 - ELECTRONIC MONITOR PIPE SUMPS
5	5 - ELECTRONIC MONITOR DISPENSER LINERS
5	F - MONITOR DBL WALL TANK SPACE
5	H - MECHANICAL LINE LEAK DETECTOR
5	L - AUTOMATIC TANK GAUGING - USTS

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 12 **DIST/DIR:** 0.13 SW **ELEVATION:** 97 **MAP ID:** 3

NAME: LAKE CNTY SCHOOL BD-EUSTIS HTS ELEM
ADDRESS: 310 W TAYLOR AVE
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358629310
ID2: 8629310.00
STATUS: FACILITY CLOSED
PHONE: (352) 343-3531

CONTACT:
SOURCE: FL DEP

TANK ID:	1	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:		STAT DATE:	28-FEB-1989

TK STAT: B - REMOVED
CAPACITY(GAL): 3000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: I - COUNTY GOVERNMENT

TANK ID:	2	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:		STAT DATE:	04-MAR-2003

TK STAT: B - REMOVED
CAPACITY(GAL): 3000
CONTENT: M - FUEL OIL - ONSITE HEAT
PLACE: UNDERGROUND
TYPE: I - COUNTY GOVERNMENT

TANK ID:	3	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:		STAT DATE:	31-AUG-1990

TK STAT: B - REMOVED
CAPACITY(GAL): 2000
CONTENT: M - FUEL OIL - ONSITE HEAT
PLACE: UNDERGROUND
TYPE: I - COUNTY GOVERNMENT

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

RCRAGN

SEARCH ID: 2 **DIST/DIR:** 0.13 SW **ELEVATION:** 97 **MAP ID:** 3

NAME: LAKE COUNTY SCHOOLS NORTH LAKE BUS LOT
ADDRESS: 310 W TAYLOR AVE
EUSTIS FL 32726
LAKE
CONTACT:
SOURCE: EPA

REV: 11/10/10
ID1: FLR000136689
ID2:
STATUS: VGN
PHONE:

CONTACT INFORMATION:

MARK DUFRESNE
3522536740

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE: NO
GPRA CA 2008: NO

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: NO
SUBJCA TSD 3004: NO
SUBJCA NON TSD: NO
SUBJCA TSD DISCRETION: NO

PERMIT WORKLOAD: ---
CLOSURE WORKLOAD: ---
POST CLOSURE WORKLOAD: ---

PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: ----
CORRECTIVE ACTION WORKLOAD: NO
GENERATOR STATUS: CEG
TRANSPORTER: NO
UNIVERSAL WASTE: NO
RECYCLER: NO
USED OIL: NO
IMPORTER: NO
MIXED WASTE GENERATOR: NO
ONSITE BURNER EXEMPT: NO
FURNACE EXEMPTION: NO
UNDERGROUND INJECTION: NO

NAIC 1:
NAIC 2: School and Employee Bus Transportation
NAIC 3:
NAIC 4:

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 8 **DIST/DIR:** 0.27 SE **ELEVATION:** 104 **MAP ID:** 4

NAME: CUMBERLAND FARMS 0969
ADDRESS: 1701 S BAY ST
EUSTIS FL 32728
LAKE
CONTACT:
SOURCE: FL DEP

REV: 1/4/11
ID1: 358509873
ID2: 8509873.00
STATUS: FACILITY OPEN
PHONE: (352) 357-1563

TANK ID: 2 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-OCT-1976 **STAT DATE:** 19-JUN-1996

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 3 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-OCT-1976 **STAT DATE:** 19-JUN-1996

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 4 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-JUN-1996 **STAT DATE:** 06-MAY-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 5 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-JUN-1996 **STAT DATE:** 06-MAY-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 6 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-JUN-1996 **STAT DATE:** 06-MAY-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: B - UNLEADED GAS

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 8 **DIST/DIR:** 0.27 SE **ELEVATION:** 104 **MAP ID:** 4

NAME: CUMBERLAND FARMS 0969
ADDRESS: 1701 S BAY ST
EUSTIS FL 32728
LAKE

REV: 1/4/11
ID1: 358509873
ID2: 8509873.00
STATUS: FACILITY OPEN
PHONE: (352) 357-1563

CONTACT:
SOURCE: FL DEP

9 N - FLOW SHUT-OFF
9 O - TIGHT FILL

PIPING INFORMATION

<u>TANK ID:</u>	<u>DESCRIPTION:</u>
7	G - PIPE TRENCH LINER
7	J - PRESSURIZED PIPING SYSTEM
7	N - APPROVED SYNTHETIC MATERIAL
8	G - PIPE TRENCH LINER
8	J - PRESSURIZED PIPING SYSTEM
8	N - APPROVED SYNTHETIC MATERIAL
9	G - PIPE TRENCH LINER
9	J - PRESSURIZED PIPING SYSTEM
9	N - APPROVED SYNTHETIC MATERIAL

MONITORING INFORMATION

<u>TANK ID:</u>	<u>DESCRIPTION:</u>
7	3 - ELECTRONIC MONITOR PIPE SUMPS
7	5 - ELECTRONIC MONITOR DISPENSER LINERS
7	F - MONITOR DBL WALL TANK SPACE
8	3 - ELECTRONIC MONITOR PIPE SUMPS
8	5 - ELECTRONIC MONITOR DISPENSER LINERS
8	F - MONITOR DBL WALL TANK SPACE
9	3 - ELECTRONIC MONITOR PIPE SUMPS
9	5 - ELECTRONIC MONITOR DISPENSER LINERS
9	F - MONITOR DBL WALL TANK SPACE

Environmental FirstSearch **Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 14 **DIST/DIR:** 0.30 SE **ELEVATION:** 102 **MAP ID:** 5

NAME: PHILLIPS 66 FOOD MART
ADDRESS: 1911 S BAY ST
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358510098
ID2: 8510098 00
STATUS: FACILITY OPEN
PHONE: (352) 589-1899

CONTACT:
SOURCE: FL DEP

TANK ID:	1	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1972	STAT DATE:	13-JUL-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 3000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	2	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1972	STAT DATE:	13-JUL-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 4000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	3	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1972	STAT DATE:	13-JUL-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 4000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	4	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-1972	STAT DATE:	13-JUL-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 4000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	5	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JUL-2005	STAT DATE:	01-JUL-2005

TK STAT: U - IN SERVICE
CAPACITY(GAL): 16000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 10 **DIST/DIR:** 0.31 NW **ELEVATION:** 89 **MAP ID:** 6

NAME: H JENNINGS ROU INC
ADDRESS: STEVENS and SMITH AVE
EUSTIS FL 32727
LAKE

REV: 1/4/11
ID1: 358509934
ID2: 8509934.00
STATUS: FACILITY CLOSED
PHONE: (904) 357-4113

CONTACT:
SOURCE: FL DEP

DISCHARGE INFORMATION

DISCHARGE DATE: 02/07/2006
COMBINED:
SCORE:
SCORE DATE: 05/15/2006
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: NREQ - CLEANUP NOT REQUIRED
INFO SOURCE: D - DISCHARGE NOTIFICATION
OTIHER SOURCE:
SITE MANAGER: ASHTON_K
MANAGER END DATE: 09/12/2006
TANK OFFICE: PCLP59 - SEMINOLE CNTY ENVIRONMENTAL MGMT

POLLUTANT: Y - UNKNOWN/NOT REPORTED
GALLONS DISCHARGED:
DRINK WELLS AFFECTED:
MONITORING WELLS:
SOIL AFFECTED: YES
S WATER AFFECTED:
G WATER AFFECTED:
OTHER DESCRIPTION: UNKNOWN AMOUNT

UST INFORMATION

TOTAL NUMBER OF TANKS: 4

FACILITY TYPE: C - FUEL USER/NON-RETAIL
DEP CO: N

TANK INFORMATION

TANK ID:	1	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:	01-OCT-1973	STAT DATE:	28-FEB-1988
TK STAT:	B - REMOVED		
CAPACITY(GAL):	3000		
CONTENT:	A - LEADED GAS		
PLACE:	UNDERGROUND		
TYPE:	C - FUEL USER/NON-RETAIL		

TANK ID:	2	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:	01-OCT-1973	STAT DATE:	31-MAY-1988
TK STAT:	B - REMOVED		
CAPACITY(GAL):	4000		

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Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 15 **DIST/DIR:** 0.34 NW **ELEVATION:** 89 **MAP ID:** 7

NAME: ROBERTS OIL CO ADDRESS: 600 W ATWATER AVE EUSTIS FL 32726 LAKE CONTACT: SOURCE: FL DEP	REV: 2/3/10 ID1: 358509857 ID2: 8509857.00 STATUS: FACILITY ABANDONED PHONE: (305) 913-3340
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SITE INFORMATION

OPERATOR: JOHNSON POLITANO-MLHM CUSTODIAN
NAME UPDATED:
ADDR UPDATED:
BAD ADDR INDICATOR: Y

RP ID: 18403
RP ROLE: ACCOUNT OWNER
RP BEGIN: 05-06-2002
NAME: R N ROBERTS and ASSOCIATES INC
33233 ST JOE RD
DADE CITY FL 33525

PHONE: (352) 567-5873

DISCHARGE INFORMATION

DISCHARGE DATE: 01-25-2005
POLLUTANT: L - WASTE OIL
COMBINED:
SCORE: 54
SCORE DATE: 06-06-2005
GAL DISCHARGED:

CLEANUP REQUIRED: R - CLEANUP REQUIRED
WORK STATUS: ACTIVE
DISCHARGE CLEANUP STATUS: SA - SA ONGOING

INFO SOURCE: D - DISCHARGE NOTIFICATION
OTHER SOURCE: FOUND DURING CLOSURE
SITE MANAGER: LEROUX_B
MANAGER END DATE:

TANK OFFICE: PCCD - CENTRAL DISTRICT

DISCHARGE DATE: 12-05-1988
POLLUTANT: A - LEADED GAS
COMBINED:
SCORE: 54
SCORE DATE: 06-06-2005
GAL DISCHARGED:

DISCHARGE DATE: 12-05-1988
POLLUTANT: D - VEHICULAR DIESEL
COMBINED:
SCORE: 54
SCORE DATE: 06-06-2005
GAL DISCHARGED:

DISCHARGE DATE: 12-05-1988

- Continued on next page -

Environmental FirstSearch **Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST			
SEARCH ID:	DIST/DIR:	ELEVATION:	MAP ID:
15	0.34 NW	89	7
NAME: ROBERTS OIL CO ADDRESS: 600 W ATWATER AVE EUSTIS FL 32726 LAKE CONTACT: SOURCE: FL DEP		REV: 2/3/10 ID1: 358509857 ID2: 8509857.00 STATUS: FACILITY ABANDONED PHONE: (305) 913-3340	
PLACE: TYPE:		ABOVEGROUND D - BULK STORAGE FACILITY	
TANK ID: TVI: INSTALLED:		11 TANK 01-JUL-1987	
		STATUS: DEP CO: STAT DATE:	
		ABANDONED N 03-APR-2001	
TK STAT: CAPACITY(GAL): CONTENT: PLACE: TYPE:		F - UNMAINTAINED 2000 O - NEW/LUBE OIL ABOVEGROUND D - BULK STORAGE FACILITY	
TANK ID: TVI: INSTALLED:		12 TANK 01-JUL-1987	
		STATUS: DEP CO: STAT DATE:	
		ABANDONED N 03-APR-2001	
TK STAT: CAPACITY(GAL): CONTENT: PLACE: TYPE:		F - UNMAINTAINED 2000 O - NEW/LUBE OIL ABOVEGROUND D - BULK STORAGE FACILITY	
TANK ID: TVI: INSTALLED:		13 TANK 01-JUL-1987	
		STATUS: DEP CO: STAT DATE:	
		ABANDONED N 03-APR-2001	
TK STAT: CAPACITY(GAL): CONTENT: PLACE: TYPE:		F - UNMAINTAINED 3000 O - NEW/LUBE OIL ABOVEGROUND D - BULK STORAGE FACILITY	
TANK ID: TVI: INSTALLED:		14 TANK 01-JUL-1987	
		STATUS: DEP CO: STAT DATE:	
		ABANDONED N 03-APR-2001	
TK STAT: CAPACITY(GAL): CONTENT: PLACE: TYPE:		F - UNMAINTAINED 3000 O - NEW/LUBE OIL ABOVEGROUND D - BULK STORAGE FACILITY	
TANK ID: TVI: INSTALLED:		2 TANK 	
		STATUS: DEP CO: STAT DATE:	
		ABANDONED N 03-APR-2001	
TK STAT:		F - UNMAINTAINED	

- Continued on next page -

Environmental FirstSearch **Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 15 **DIST/DIR:** 0.34 NW **ELEVATION:** 89 **MAP ID:** 7

NAME: ROBERTS OIL CO
ADDRESS: 600 W ATWATER AVE
EUSTIS FL 32726
LAKE

REV: 2/3/10
ID1: 358509857
ID2: 8509857.00
STATUS: FACILITY ABANDONED
PHONE: (305) 913-3340

CONTACT:
SOURCE: FL DEP

TK STAT: F - UNMAINTAINED
CAPACITY(GAL): 888
CONTENT: Y - UNKNOWN/NOT REPORTED
PLACE: UNDERGROUND
TYPE: D - BULK STORAGE FACILITY

TANK ID: 8 **STATUS:** ABANDONED
TVI: TANK **DEP CO:** N
INSTALLED: **STAT DATE:** 03-APR-2001

TK STAT: F - UNMAINTAINED
CAPACITY(GAL): 888
CONTENT: Y - UNKNOWN/NOT REPORTED
PLACE: UNDERGROUND
TYPE: D - BULK STORAGE FACILITY

TANK ID: 9 **STATUS:** ABANDONED
TVI: TANK **DEP CO:** N
INSTALLED: **STAT DATE:** 03-APR-2001

TK STAT: F - UNMAINTAINED
CAPACITY(GAL): 888
CONTENT: Y - UNKNOWN/NOT REPORTED
PLACE: UNDERGROUND
TYPE: D - BULK STORAGE FACILITY

1	B - INTERNAL LINING
10	C - STEEL
10	S - DEP APPROVED CONTAINMENT
11	C - STEEL
11	S - DEP APPROVED CONTAINMENT
12	C - STEEL
12	S - DEP APPROVED CONTAINMENT
13	C - STEEL
13	S - DEP APPROVED CONTAINMENT
14	C - STEEL
14	S - DEP APPROVED CONTAINMENT
2	B - INTERNAL LINING
3	B - INTERNAL LINING
4	B - INTERNAL LINING
5	B - INTERNAL LINING
6	B - INTERNAL LINING
7	D - UNKNOWN
8	D - UNKNOWN
9	D - UNKNOWN

PIPING INFORMATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

NFRAP

SEARCH ID: 1 **DIST/DIR:** 0.35 NW **ELEVATION:** 88 **MAP ID:** 8

NAME: STOLLER CHEMICAL - FLORIDA
ADDRESS: 700 W ATWATER AVE
EUSTIS FL 32727
LAKE

REV: 11/30/10
ID1: FLD055945349
ID2: 0405973
STATUS: NFRAP-NFRAP-N
PHONE:

CONTACT:
SOURCE: EPA

DESCRIPTION:

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE	EPA In-House		12/23/1996
DISCOVERY	EPA Fund-Financed		10/16/1992
PRELIMINARY ASSESSMENT	State, Fund Financed	/1-95-12/1	9/30/1996

NFRAP: NO FURTHER REMEDIAL ACTION PLANNED

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 7 **DIST/DIR:** 0.41 SE **ELEVATION:** 102 **MAP ID:** 10

NAME: CITGO MARTIN 62
ADDRESS: 2107 S BAY ST
EUSTIS FL 32726
LAKE
CONTACT:
SOURCE: FL DEP

REV: 1/4/11
ID1: 358510010
ID2: 8510010.00
STATUS: FACILITY OPEN
PHONE: (904) 398-5331

SITE INFORMATION

OPERATOR: THOMAS CLARK
NAME UPDATED: 08/03/2000
ADDR UPDATED:
BAD ADDR INDICATOR: N

RP ID: 13709
RP ROLE: ACCOUNT OWNER
RP BEGIN: 05/20/1994
NAME: MARTIN OIL CO
PO BOX 10457
JACKSONVILLE FL 32247 457

PHONE: (904)398-5331

DISCHARGE INFORMATION

DISCHARGE DATE: 02/26/1990
COMBINED: 05/10/1988
SCORE: 80
SCORE DATE: 06/17/2010
CLEANUP REQUIRED: C - COMBINED CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: SRCR - SRCR COMPLETE
INFO SOURCE: D - DISCHARGE NOTIFICATION
OTHER SOURCE:
SITE MANAGER: SMEENK_S
MANAGER END DATE: 02/18/2004
TANK OFFICE: PCLP59 - SEMINOLE CNTY ENVIRONMENTAL MGMT

POLLUTANT: A - LEADED GAS
GALLONS DISCHARGED:
DRINK WELLS AFFECTED:
MONITORING WELLS:
SOIL AFFECTED:
S WATER AFFECTED:
G WATER AFFECTED:
OTHER DESCRIPTION:

DISCHARGE DATE: 05/10/1988
COMBINED:
SCORE: 80
SCORE DATE: 06/17/2010
CLEANUP REQUIRED: R - CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: SRCR - SRCR COMPLETE
INFO SOURCE: E - EDI
OTHER SOURCE:
SITE MANAGER: SMEENK_S
MANAGER END DATE: 02/18/2004

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 7 **DIST/DIR:** 0.41 SE **ELEVATION:** 102 **MAP ID:** 10

NAME: CITGO MARTIN 62
ADDRESS: 2107 S BAY ST
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358510010
ID2: 8510010.00
STATUS: FACILITY OPEN
PHONE: (904) 398-5331

CONTACT:
SOURCE: FL DEP

TANK INFORMATION

TANK ID:	1	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-JAN-1969	STAT DATE:	

TK STAT: B - REMOVED
CAPACITY(GAL): 4000
CONTENT: A - LEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	10	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-MAR-1987	STAT DATE:	01-MAR-1987

TK STAT: D - DELETED
CAPACITY(GAL): 5000
CONTENT: K - KEROSENE
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	11	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-SEP-2005	STAT DATE:	01-SEP-2005

TK STAT: U - IN SERVICE
CAPACITY(GAL): 12000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	12	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-SEP-2005	STAT DATE:	01-SEP-2005

TK STAT: U - IN SERVICE
CAPACITY(GAL): 12000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID:	13	STATUS:	OPEN
TVI:	TANK	DEP CO:	N
INSTALLED:	01-SEP-2005	STAT DATE:	01-SEP-2005

TK STAT: U - IN SERVICE

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Environmental FirstSearch Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 7 **DIST/DIR:** 0.41 SE **ELEVATION:** 102 **MAP ID:** 10

NAME: CITGO MARTIN 62
ADDRESS: 2107 S BAY ST
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358510010
ID2: 8510010.00
STATUS: FACILITY OPEN
PHONE: (904) 398-5331

CONTACT:
SOURCE: FL DEP

TK STAT: B - REMOVED
CAPACITY(GAL): 10000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 7 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-MAR-1987 **STAT DATE:** 01-AUG-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 10000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 8 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-MAR-1987 **STAT DATE:** 01-AUG-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 10000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

TANK ID: 9 **STATUS:** OPEN
TVI: TANK **DEP CO:** N
INSTALLED: 01-MAR-1987 **STAT DATE:** 01-AUG-2005

TK STAT: B - REMOVED
CAPACITY(GAL): 10000
CONTENT: D - VEHICULAR DIESEL
PLACE: UNDERGROUND
TYPE: A - RETAIL STATION

11 C - STEEL
11 F - FIBERGLASS CLAD STEEL
11 I - DOUBLE WALL
11 M - SPILL CONTAINMENT BUCKET
11 N - FLOW SHUT-OFF
11 O - TIGHT FILL
12 C - STEEL
12 F - FIBERGLASS CLAD STEEL
12 I - DOUBLE WALL
12 M - SPILL CONTAINMENT BUCKET
12 N - FLOW SHUT-OFF
12 O - TIGHT FILL

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 13 **DIST/DIR:** 0.47 NE **ELEVATION:** 96 **MAP ID:** 11

NAME: NATIONAL GUARD ARMORY
ADDRESS: 605 S BAY ST
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 358623760
ID2: 8623760.00
STATUS: FACILITY CLOSED
PHONE: (904) 357-2730

CONTACT:
SOURCE: FL DEP

DISCHARGE INFORMATION

DISCHARGE DATE: 06/21/1991
COMBINED:
SCORE:
SCORE DATE:
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: NREQ - CLEANUP NOT REQUIRED
INFO SOURCE: D - DISCHARGE NOTIFICATION
OTHER SOURCE:
SITE MANAGER:
MANAGER END DATE:
TANK OFFICE: -

DISCHARGE DATE: 10/30/1995
COMBINED:
SCORE:
SCORE DATE:
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED
WORK STATUS: COMPLETED
DISCHARGE CLEANUP STATUS: NREQ - CLEANUP NOT REQUIRED
INFO SOURCE: D - DISCHARGE NOTIFICATION
OTHER SOURCE:
SITE MANAGER:
MANAGER END DATE:
TANK OFFICE: -

UST INFORMATION

TOTAL NUMBER OF TANKS: 2
FACILITY TYPE: G - STATE GOVERNMENT
DEP CO: N

TANK INFORMATION

TANK ID:	1	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:	01-NOV-1954	STAT DATE:	30-JUN-1990

TK STAT: B - REMOVED
CAPACITY(GAL): 1000
CONTENT: B - UNLEADED GAS
PLACE: UNDERGROUND
TYPE: G - STATE GOVERNMENT

TANK ID:	2	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 6 **DIST/DIR:** 0.48 NW **ELEVATION:** 78 **MAP ID:** 12

NAME: CHEVRON 4041
ADDRESS: 310 W BADGER AVE
EUSTIS FL 32726
LAKE

REV: 1/4/11
ID1: 359047533
ID2: 9047533.00
STATUS: FACILITY CLOSED
PHONE:

CONTACT:
SOURCE: FL DEP

SITE INFORMATION

OPERATOR: VACANT
NAME UPDATED:
ADDR UPDATED:
BAD ADDR INDICATOR:

RP ID: 59590
RP ROLE: PROPERTY OWNER
RP BEGIN: 03/21/2006
NAME: BARE PROPERTIES INC
1206 PINE ST
ORLANDO FL 32805

PHONE:

DISCHARGE INFORMATION

DISCHARGE DATE: 11/17/1988
COMBINED:
SCORE: 30
SCORE DATE: 02/14/2006
CLEANUP REQUIRED: R - CLEANUP REQUIRED
WORK STATUS: ACTIVE
DISCHARGE CLEANUP STATUS: SA - SA ONGOING
INFO SOURCE: E - EDI
OTHER SOURCE:
SITE MANAGER: RUSSELL_J
MANAGER END DATE: 06/30/2007
TANK OFFICE: PCLP59 - SEMINOLE CNTY ENVIRONMENTAL MGMT

POLLUTANT: Y - UNKNOWN/NOT REPORTED
GALLONS DISCHARGED:
DRINK WELLS AFFECTED: 0
MONITORING WELLS: YES
SOIL AFFECTED: NO
S WATER AFFECTED: NO
G WATER AFFECTED: NO
OTHER DESCRIPTION:

UST INFORMATION

FACILITY TYPE: X - CONTAMINATION SITE
DEP CO: N

TANK INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

LUST

SEARCH ID: 11 **DIST/DIR:** 0.48 NW **ELEVATION:** 78 **MAP ID:** 12

NAME: HARRIS OIL and GAS
ADDRESS: BADGER RR ST
EUSTIS FL
LAKE

REV: 1/4/11
ID1: 359600043
ID2: 9600043.00
STATUS: FACILITY CLOSED
PHONE: (904) 383-2322

CONTACT:
SOURCE: FL DEP

TANK ID:	2	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:		STAT DATE:	01-DEC-1995

TK STAT: B - REMOVED
CAPACITY(GAL): 8000
CONTENT: D - VEHICULAR DIESEL
PLACE: ABOVEGROUND
TYPE: A - RETAIL STATION

TANK ID:	3	STATUS:	CLOSED
TVI:	TANK	DEP CO:	N
INSTALLED:		STAT DATE:	01-DEC-1995

TK STAT: B - REMOVED
CAPACITY(GAL): 10000
CONTENT: D - VEHICULAR DIESEL
PLACE: ABOVEGROUND
TYPE: A - RETAIL STATION

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN - Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

CONNECTICUT HAZARDOUS WASTE MANIFEST - Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.

MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP.

VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.

SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.

LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: BIA INDIAN LANDS AND NATIVE ENTITIES IN FLORIDA - database of American Indian reservations in Florida.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries

designated brownfield area under s. 376.80,F.S.

State/Tribal Brownfields: *FDEP* BROWNFIELDS REDEVELOPMENT PROGRAM DATABASE- database of reports generated from the Brownfield Access Database which tracks the number of designated Brownfield areas, executed Brownfield site rehabilitation agreements, state and federal programs funding, and local Brownfield coordinators' contact information

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

State Other: *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER - Database of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

State Other: *FDEP* SINKHOLES - database of sinkholes from the Florida Geological Survey Sinkholes.
DRYCLEANERS LIST - database of dry cleaning facilities registered with the Department. Information includes facility identification number, site location information, related party (owner) information, and facility type and status. Data is taken from the Storage Tank & Contamination Monitoring database, the registration repository of dry cleaner facility data.

CATTLE DIPPING VATS - database of vats that were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT where also widely used. This is a static list from 1910 through 1950s.

FI Map Coverage: *PROPRIETARY* FIRE INSURANCE MAP AVAILABILITY - Database of historical fire insurance map availability.

State/Tribal Sites: FL DER/DEP/EPA Florida Department of Environmental Protection, Bureau of Waste Cleanup

Updated quarterly

State Spills 90: FDEP Florida Department of Environmental Protect

Updated quarterly

State/Tribal SWL: FDEP Florida Department of Environmental Protection

Updated annually

State/Tribal LUST: FDEP Florida Department of Environmental Protection

Updated quarterly

State/Tribal UST/AST: FDEP/EPA Florida Department of Environmental Protection

Updated quarterly

State/Tribal EC: FDEP Florida Department of Environmental Protect

Updated quarterly

State/Tribal IC: FDEP Florida Department of Environmental Protect

Updated quarterly

State/Tribal VCP: FL DEP Florida Department of Environmental Protection

Updated no longer available

State/Tribal Brownfields: FDEP The Florida Department of Environmental Protection, Division of Waste Management.

Updated quarterly

RADON: NTIS Environmental Protection Agency, National Technical Information Services

Updated periodically

State Other: US DOJ U.S. Department of Justice

Updated when available

State Other: FDEP Florida Department of Environmental Protection Storage Tank & Contamination

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 1400 S BAY ST
EUSTIS FL 32726

JOB: 03032011

Street Name	Dist/Dir	Street Name	Dist/Dir
Blackberry Ct	0.23 SE		
E Atwater Ave	0.04 NE		
E Barnes Ave	0.05 SE		
E Doane Ave	0.21 NE		
E Golflinks Ave	0.23 SE		
E Mills Ave	0.09 NE		
E Quayle Ave	0.17 SE		
E Taylor Ave	0.10 SE		
East Lakeview Ave	0.15 NE		
Morin St	0.03 SW		
S Bay St	0.03 NE		
S Dewey St	0.22 NE		
S Eustis St	0.10 NE		
S Grove St	0.16 NE		
South St	0.18 NW		
State Road 19	0.25 NE		
Titcomb St	0.09 NW		
W Atwater Ave	0.02 N-		
W Barnes Ave	0.04 SW		
W Doane Ave	0.21 N-		
W Golflinks Ave	0.22 S-		
W Mills Ave	0.09 N-		
W Quayle Ave	0.17 S-		
W Taylor Ave	0.10 S-		
West Lakeview Ave	0.14 N-		
Windmere Ave	0.25 NE		



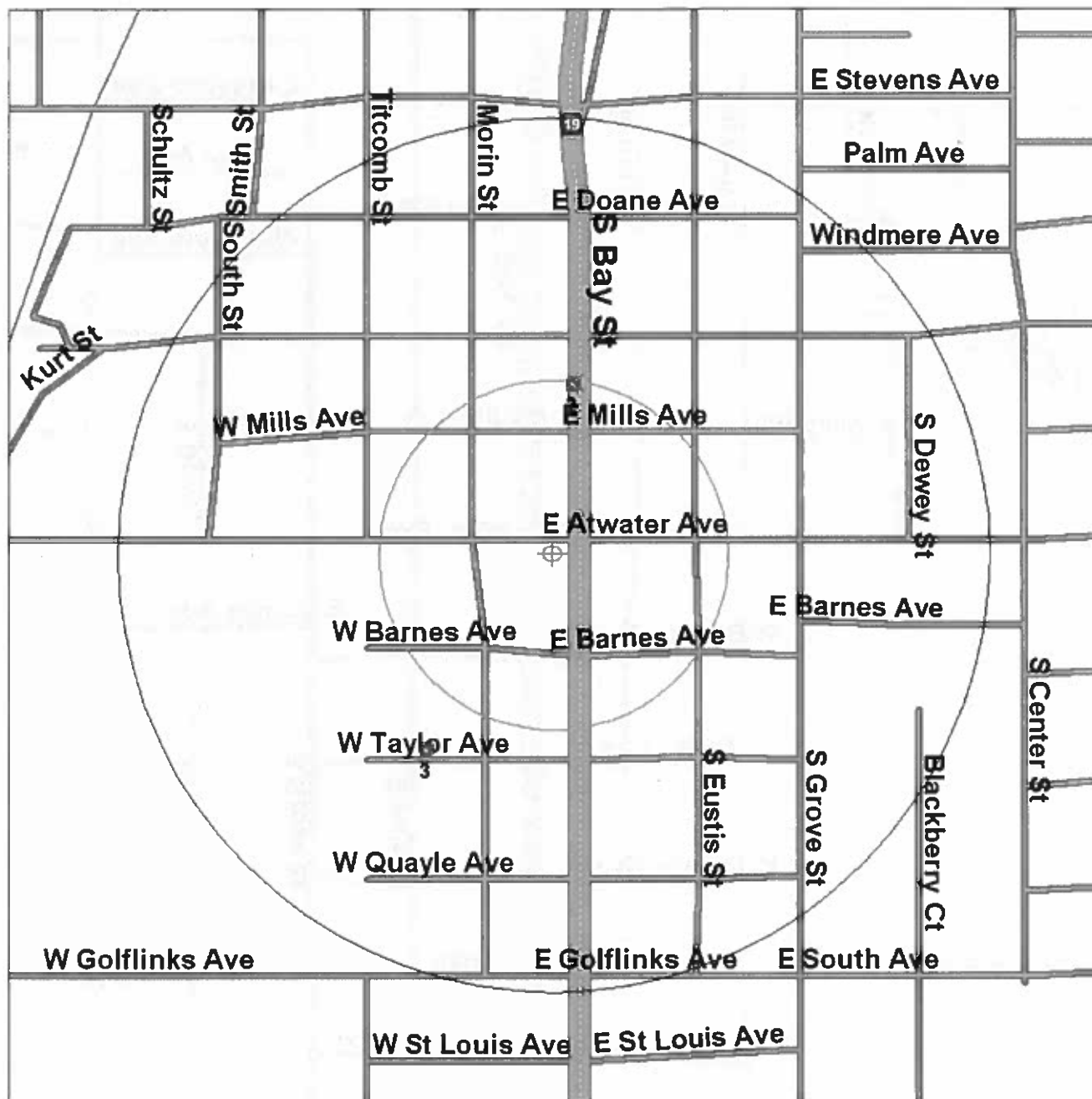
Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



1400 S BAY ST, EUSTIS FL 32726



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 28.839973 Longitude: -81.685791)

Identified Site, Multiple Sites, Receptor

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste


Triballand


Railroads


Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius




ATTACHMENT C


Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 1			
Date: 03/10/11			
Direction Photo Taken: South			
Description: View of the commercial building on the subject property.			

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 2			
Date: 03/10/11			
Direction Photo Taken: West			
Description: View of the parking area and residential building on the subject property.			


Site Name: 1400 South Bay Street		Site Location: Eustis, Florida
Photo No.: 3		
Date: 03/10/11		
Direction Photo Taken: South		
Description: View of the garage attached to the commercial building.		

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida
Photo No.: 4		
Date: 03/10/11		
Direction Photo Taken: South		
Description: View of the inside of the commercial building.		


Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 5			
Date: 03/10/11			
Direction Photo Taken: Southeast			
Description: View of the inside of the commercial building.			

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 6			
Date: 03/10/11			
Direction Photo Taken: South			
Description: View of the inside of the commercial building.			

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida
Photo No.: 7		
Date: 03/10/11		
Direction Photo Taken: West		
Description: View of the Motor Lodge, located to the south of the subject site.		

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida
Photo No.: 8		
Date: 03/10/11		
Direction Photo Taken: North		
Description: View of the doctor/dentist office to the north of the subject site		

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 9			
Date: 03/10/11			
Direction Photo Taken: East			
Description: View of AutoZone, located to the southeast of the subject site.			

Site Name: 1400 South Bay Street		Site Location: Eustis, Florida	
Photo No.: 10			
Date: 03/10/11			
Direction Photo Taken: Northeast			
Description: View of Fruit and Vegetable Stand, located to the northeast of the subject site.			

ATTACHMENT D

AMY L. GUILFOYLE
Senior Associate Scientist II

Education

BS, Biology—University of Central Florida, 2001

Registrations

OSHA 40-hour HAZWOPER training

Areas of Specialization

Phase I/II Environmental Site Assessments; Spill Prevention, Control, and Countermeasure Plans; Petroleum Sites; Assessment and Remediation; Project Management, Health and Safety Training, Environmental Sampling, Permitting

Project Manager; Contamination Assessments (CAs), Various Clients—Responsible for managing site activities at numerous CAs completed in central Florida. Responsible for oversight of monitoring well installation; soil, groundwater, and other environmental sampling; soil lithologic borings; soil and underground storage tank removal; operation and maintenance of remedial systems; and preparing reports.

Project Manager, Phase I/Phase II Environmental Site Assessments (ESAs), States Resources Corp.—Responsible for performing American Society for Testing and Materials (ASTM) Phase I for the acquisition of an abandoned gas station property in New Smyrna Beach, Florida. Conducted review of historical records, such as aerial photographs, city directories, fire insurance maps, and property appraiser information. Conducted interviews, regulatory database reviews, and onsite inspections; documented all findings in report. Performed soil and groundwater sampling to investigate the issues discussed in the Phase I ESA

Project Manager, Phase I/Phase II ESA, Confidential Client—Conducted a Phase I ESA in accordance with ASTM standards on a car dealership in Orlando, Florida. Managed the soil and groundwater sampling conducted to investigate the conditions identified in the Phase I ESA.

Project Manager, Site Assessment, Alcoa—Responsible for managing site activities in Polk County, Florida, including soil characterization and peizometer installation. Prepared a site assessment report including a preliminary risk evaluation identifying potential exposure pathways and receptors.

Project Scientist; U.S. Environmental Protection Agency (EPA) Brownfields Assessment Grant Contracts, Cities of Eustis, Cocoa, and New Smyrna Beach, Florida—Provided assistance with task assignments for assessment grants. These grants provide funding for community outreach, quality assurance project plans, Phase I/II ESAs, and cleanup/redevelopment planning.

Project Scientist; Environmental, Health, and Safety (EHS) Support Services, Times Publishing Company—Provided comprehensive EHS services to major newspaper publishing company in St. Petersburg, Florida. Services provided included assistance with hazardous waste (RCRA) compliance, Clean Air Act compliance, and Clean Water Act. Also provided assistance with ongoing corporate health and safety (OSHA-driven) program implementation and stormwater pollution prevention plan.

Project Scientist; EHS Support Services, GTECH Printing Corporation—Provided comprehensive EHS services to printing facility located in Lakeland, Florida. Services provided included assistance with hazardous waste (RCRA) compliance.

Task Manager; Toxic Release Inventory (Form R), Private Client—Responsible for preparation of Form R reports in accordance with EPA's community right-to-know requirements for several facilities located in Florida. Projects included conducting a threshold determination analysis, performing calculation for chemical release estimation, and preparation of EPA's Form R reports.

ECT

Environmental Consulting & Technology, Inc.

Project Scientist; Spill Prevention, Control, and Countermeasure (SPCC) Plan, Safety Kleen—Responsible for the preparation of the SPCC plan for a bulk storage facility in Ocala, Florida.

Project Scientist, Assessment and Remediation of Multiple Petroleum Sites, County of Volusia—Typical projects include groundwater and soil sampling, soil characterization, monitoring well installation, assessment activities to define a clay layer; free product recovery; and remediation system evaluation and modification.

Project Manager; Level I Contamination Screening Evaluation (CSE) for the Wekiva Parkway PD&E Study, Florida Department of Transportation (FDOT)—Performed Level I CSE for multiple roadway alternatives, the preferred alignment and over 60 pond sites throughout the Orange, Lake, and Seminole County corridor.

Project Manager; Level I CSE and Level II CAs for the Central Florida Commuter Rail Transit Project, FDOT—Performed Level I CSE and Level II CA on the properties adjacent to or within the footprints of the proposed rail stations along the CSX rail corridor that will be utilized in the transit project. Over 80 potential contamination sites were identified along this 61-mile corridor. Soil and groundwater were assessed on each of the properties for various chemical components. The data obtained were used by FDOT to evaluate implications associated with property purchases, station configuration, and location.

Project Manager; Level I CSE and Level II CA for I-4 Ultimate Lanes, FDOT—Performed screening and assessment activities for the properties along the I-4 corridor from Ivanhoe Boulevard to south of Maitland Boulevard. Responsibilities included data review, site reconnaissance, soil and groundwater assessment, and report preparation.

Project Manager; Level I CSE and Level II CA for SR 500, Leesburg, FDOT—Performed screening and assessment activities for the properties along the SR 500 corridor from Griffin Road to Martin Luther King Boulevard and the parcels surrounding the proposed ponds. Responsibilities included data review, site reconnaissance, soil and groundwater assessment, remedial strategy analysis, and report preparation.

Project Manager; Level I CSE and Level II CA for I-95 Final Design Project, Brevard County, FDOT—Performed screening and assessment activities for the properties along the I-95 corridor from the Brevard County line to north of CR 514 and the parcels surrounding the proposed ponds. Responsibilities included data review, site reconnaissance, soil and groundwater assessment, and report preparation.

Project Manager; Level I CSE and Level II CA for SR 40 Final Design Project, Marion County, FDOT—Performed screening and assessment activities for the properties along the SR 40 corridor from US 41/SR 45 to CR 328 and the parcels surrounding the proposed ponds. Responsibilities included data review, site reconnaissance, soil and groundwater assessment, and report preparation.

Project Manager; Phase I/II ESAs, St. Johns River Water Management District (SJRWMD)—Responsible for performing ASTM Phase I/II ESAs for SJRWMD on properties in the acquisition phase. Properties ranged from a

few acres to several hundred acres. Conducted review of historical records, such as aerial photographs, city directories, fire insurance maps, property appraiser information, and chain-of-title records. Conducted interviews, regulatory database reviews, and onsite inspections; documented all findings in report. Representative sites included Phase I ESAs at Marion County surplus parcels, Dietrich property, Sam Ge, and Relay; and Phase II ESAs at Minter property (soil, surface, and groundwater sampling) and Dietrich property (well installation and groundwater sampling).

Project Scientist; Phase I/II and III/IV ESAs, South Florida Water Management District (SFWMD)—Conducted Phase I/II ESA for Parcel 311-051, Cell 23, pig farm assessment, and Phase III/IV restoration activities at the former Brighton Dairy Farm property.

Project Scientist; Surface Water Monitoring, SFWMD—Collected bi-monthly surface water samples at multiple sites around the North and South Fork of the St Lucie River in support of the SWIM program.

Project Scientist; Corrective Measures Study, Fuel Storage Area No. 1, Cape Canaveral Air Force Station (CCAFS)—Collected groundwater data and evaluated technologies to remediate a chlorinated solvent plume migrating offsite. All work activities were monitored and evaluated closely by the CCAFS/PAFB Environmental Restoration Partnering Team, which consists of representatives from the EPA, Florida Department of Environmental Protection (FDEP), U.S. Air Force, and various contractors.

Project Manager; Long-Term Operation and Maintenance and Long Term Monitoring, CCAFS—Management of multiple sites including groundwater sampling, corresponding with the field crew, data management and technical report writing.

Project Scientist; Interim Measures, Oak Hill Grove, Kennedy Space Center (KSC)—Conducted a soil excavation to mitigate metal contaminated soil to reduce human health and ecological risks at the Oak Hill Grove site in Brevard County, Florida.

Project Manager; Phase I ESAs, El Paso Corporation—Completed Phase I ESA activities at four existing electric power plants in Florida in accordance with ASTM standards, which included ground reconnaissance, record review, wetland evaluation, and report preparation.

Project Scientist; SPCC Plan and Emergency Management Plan, Coca-Cola North America—Prepared an environmental management plan and a SPCC plan for Minute Maid orange juice production plant in Tampa, Florida. Responsibilities included site visit, facility compliance analysis, plan preparation, and implementation.

Project Manager; SPCC Plans, LB Smith—Completed SPCC plans for three construction equipment sales and rental facilities in Polk County, Florida. Responsibilities included site visit, facility compliance analysis, plan preparation and implementation, and onsite training of facility personnel.

Project Manager; Tank Removal, St. Cloud Trailer Park—Performed oversight for the removal of three USTs in St. Cloud, Florida, and facilitated petroleum program administration for the FDEP Innocent Victory Petroleum Clean-up Program.

Project Scientist; Waste Tracking, Visteon, Markham Waste Management Program—Developed methods to track progress and verify subcontractor invoices, unit costs, waste quantities, and billing costs and quantities. Prepared invoices monthly and was contact for all subcontractors.

DAVID L. KRAUS, P.G.
Principal Scientist

Education

B.S., Earth Sciences (Geology)—
Pennsylvania State University,
1976

Registrations

Professional Geologist, Florida,
No. 676
OSHA Hazardous Waste Materials
and Site Investigations
Respiratory Protection

Affiliations

National Ground Water Association
American Geophysical Union
Tau Beta Pi

Areas of Specialization

Project Management, Hazardous
Waste Site Investigations
(RCRA/CERCLA), Contamina-
tion Assessments, Site Remedia-
tion, Hydrogeology, Brownfields,
Remedial Investigations, Risk
Assessments, Feasibility Studies,
Ground Water Supply Develop-
ment, Environmental Audits, Wa-
ter Quality, Asbestos Consulting

Project Scientist, Phase I Environmental Site Assessment (ESA); Project Manager for Remedial Activities and Facility Decommissioning, Confidential Client—Conducted comprehensive site remediation activities including hazardous waste, nonhazardous, mixed waste and radioactive waste removal and facility decommissioning at an abandoned chemical manufacturing facility in Polk County, Florida. The site had been previously decommissioned as part of the radioactive materials licensing termination process through the state regulatory agency. Subsequently the site was operated as a hazardous waste treatment facility, but was shut down. Initial activities included radiological screening and decontamination, waste and remnant materials inventory and removal including asbestos, compressed gas cylinders, drums and containers, liquid waste in secondary containment, and over 120 aboveground storage tanks (ASTs) ranging in size from 50 gallons to 250,000 gallons. Facility decommissioning included the complete demolition and decontamination of tanks, structures, secondary containment, a full analytical laboratory, pilot test area, ponds, drainageways, and miles of process piping. Radiological decontamination efforts including waste chemical stabilization and solidification, material segregation and disposal was conducted during all phases of the work through demolition. All work was conducted on a fast-track basis, with a project schedule for the above activities including demolition of 12 months.

Project Scientist, Comprehensive Waste Characterization and Removal Activities and Facility Decommissioning at an Abandoned Chemical Plant, Confidential Client—Responsible for development of sampling protocols, safety planning, and analytical characterization methodology for sampling for approximately 50 ASTs containing raw materials and unknown residuals at a site in Polk County, Florida. Contents were inventoried, characterized, and a phased removal was developed and implemented. In addition, work at this site has included petroleum remediation efforts Beginning with soil assessment efforts, bid specifications were prepared, bids solicited, and a contractor selected to perform source removal activities. Following completion of the remediation activities, post-active remediation monitoring was initiated. Other efforts in the diverse array of work have included lagoon closure; permit modifications, renewals and termination; site-wide contamination assessment; asbestos survey and abatement; and facility decommissioning.

Project Manager, EPA Brownfields Assessment Grant Contracts, Cities of Eustis, Cocoa, and New Smyrna Beach, Florida—Responsible for managing overall contracts and task assignments for assessment grants. These grants provide funding for community outreach, quality assurance project plans, Phase I/II ESAs, and cleanup/redevelopment planning.

Assistant Project Manager; Technical Expert Consulting/Witness Services for Contamination Assessment, Confidential Client—Provided expert consulting services including expert testimony in deposition and trial related to extensive chlorinated solvent (trichloroethylene, 1,1,1-trichloroethane, methylene chloride and breakdown products) and metals contamination resulting from electroplating and printed circuit board manufacturing operations in Tampa, Florida. The evaluation included a comprehensive review and reconstruction of historical plant operations, monitoring well construction, geologic/hydrologic features (such as confining unit configuration and sinkholes), locating potential interior and exterior contaminant source areas, and investigating past discharges into an adjacent lake. The technical data evaluation included preparation of a database for well construction and analytical data containing over 250,000 data fields. The data evaluation assessed the adequacy of

previous assessment/remediation efforts conducted by numerous consultants over a 15-year period, and to prepare reasonable and defensible estimates of remediation liability for the cleanup of groundwater, surface water/sediments, and soil to pre-development conditions as required in the facility lease.

Project Manager, Baseline Environmental Site Assessment, Johnson Bros. Laydown Yard, SLRC Property—Conducted soil and groundwater characterization to determine baseline environmental conditions at a contractor's laydown yard in Orange County, Florida. Major work tasks included preliminary groundwater flow direction determination using temporary piezometers, site selection for permanent monitoring wells, well installation and groundwater sampling, and soil sampling. All sampling locations were field located relative to fixed landmarks such that follow-up sampling can be conducted at the same locations at the conclusion of the contractor's multi-year construction efforts.

Project Manager, Project Closeout Environmental Site Assessment, Johnson Bros. Laydown Yard, SLRC Property—At the conclusion of the contractor's multi-year construction efforts, soil and groundwater conditions were evaluated to determine if soil or groundwater quality were impacted during use of the property. Sampling locations from the baseline assessment conducted four years prior (refer to preceding project description) were re-created, allowing for an accurate assessment of pre- and post-use conditions.

Project Manager, Hydrogeological and Environmental Services Agreement, County of Volusia—Serve as project manager for assignments under a multi-year services countywide contract. Work assignments have included baseline environmental assessment and sump/soil removal at an inactive airport rental car facility, assessment and clean closure of a former petroleum storage tank site at a county public works facility, assessment and remedial action planning at an airport facility impacted by chlorinated solvents, site assessment and clean closure for a waste oil tank, removal and closure for an abandoned storage tank found in a County right of way, and various petroleum contamination assessments at county facilities.

Project Manager, Assessment and Remediation of Multiple Petroleum Sites, County of Volusia Vehicle Maintenance Facilities—Serve as project manager for various vehicle maintenance and fleet fueling facilities operated by the County of Volusia. Typical projects include assessment activities to define a clay layer and its potential impact on a poorly defined groundwater plume; remediation system evaluation and modification at a fueling facility wherein the current system has been ineffective in bringing about site closure after 5 years of active remediation.

Project Manager, Professional Services Contract, Brevard County, Florida—Responsible for management of overall contract and individual task orders for the County Natural Resources Management Office. Projects have included numerous groundwater quality investigations to support the County's efforts in improving stormwater management. Work efforts have consisted of monitoring well installation, groundwater sampling for conventional and ultra-trace metals parameters, reporting and well abandonment.

Task Manager, Discharge Monitoring Report Preparation, Sampling Plan Preparation, Accumulated Rainwater Discharge Operations, UIOA Contractor Laydown Yard/Hotel Site D—Summarized contractor sampling information and laboratory reports, and timely submitted monitoring reports to the Florida Department of Environmental Protection (FDEP) describing accumulated rainwater discharge operations for facility in Orange County, Florida.

Also prepared a follow-on work plan for submittal to the FDEP Waste Clean-up group detailing confirmatory soil sampling in the former laydown yard.

Project Manager, Aquifer Storage and Recovery (ASR) Pilot and Regional Projects, Quality Assurance/Quality Control (QA/QC) and Data Validation, South Florida Water Management District (SFWMD)—Work tasks include data validation of ASR pilot project, data validation of storm event data, data validation of regional ASR project, preparing quality system documents, conducting field audits, laboratory audits and QC studies.

Project Manager, QA/QC and Data Validation Support for Stormwater Treatment Areas Monitoring and Research Programs, SFWMD—Work includes review of sample collection documentation and sample tracking, data validation, investigation of data discrepancy or nonconformance, data scrub of historical data, data review and validation of in-situ data, preparation and distribution of laboratory performance evaluation samples, field and laboratory audits, quarterly assessment of field and laboratory performance, and preparation of quality systems documents.

Project Manager, Phase II ESA and Permitting Support, Proposed Industrial Development, Melbourne, Florida, Confidential Client—ECT was brought into the project when problems were encountered in meeting the technical and schedule requirements relating to the facility construction schedule. ECT mobilized in 24 hours and completed the field effort within three working days. To facilitate the regulatory review process, a report was issued to the client and regulatory agency within 24 hours of the completion of the field work, and subsequent permitting activities were completed on time and under budget.

Project Manager, RCRA/Hazardous Waste Enforcement Site, Apopka, Florida, Confidential Client—Conducted soil and groundwater facility assessment, preparing source removal plan, and completed negotiations with FDEP Hazardous Waste staff in addressing alleged RCRA violations at a metal fabrication facility. Following successful negotiations, RCRA enforcement action was terminated, and the site assessment and remediation took place following the contaminated site cleanup criteria. Source removal was completed and the site received a Site Rehabilitation Completion Order.

Project Manager, Petroleum Site Assessment and Remediation, Sunshine Food Mart (SFM)—Soil and groundwater assessments have been completed at several SFM facilities in Orange, Volusia, Brevard and Osceola Counties, Florida. Remedial action includes construction of an air sparging/vapor extraction system at one facility, and a source removal is pending at a second.

Project Manager; Hazardous Waste Site Investigation, United Petroleum, Inc.—Provided project management, contractor oversight and technical advisory services relative to soil and groundwater conditions at a fuels facility in Tampa, Florida. Services at the site pertained to a soil stockpile resulting from a multiple underground storage tank (UST) excavation. State personnel considered the stockpile to be potentially hazardous because of lead TCLP concentrations and had implemented RCRA enforcement actions at the facility. Duties included the execution of several objectives: (1) provided a single point of contact for the regulatory agency personnel; (2) worked with the owner of the site, the finance company for the reimbursement services, along with their technical consultant to reactivate site work; (3) provided general management services to facilitate the remaining technical efforts; (4) formulated a testing program for the soil stockpile to collect a representative sample for lead analy-

sis; and (5) worked with the above personnel and achieved a final disposal/treatment plan for the nonhazardous stockpile, resulting in cost savings to the client of over \$150,000.

Project Manager, Phase II ESA and Permitting Support, Confidential Client—ECT was brought into the project when problems were encountered in meeting the technical and schedule requirements relating to the facility construction schedule for a proposed industrial development in Melbourne, Florida. ECT mobilized in 24 hours and completed the field effort within three working days. To facilitate the regulatory review process, a report was issued to the client and regulatory agency within 24 hours of the completion of the field work, and subsequent permitting activities were completed on time and under budget.

Project Scientist, Phase I and Phase II ESAs Throughout Central and South Florida, The Nature Conservancy—Conducted large-scale Phase I/II ESAs for the Nature Conservancy at numerous, predominantly agricultural tracts of property prior to acquisition.

Project Manager; Technical Expert Consulting/Witness Services for Contamination Assessment at a Manufacturing Facility, Confidential Client—Responsibilities included providing expert consulting/witness services and contractor oversight for a contamination assessment at a large manufacturing facility in Southwest Florida. Chemicals of concern consisted of various solvents (DNAPLs) and metals. Activities conducted included review and analysis of a technical consultant's preliminary contamination assessment, and oversight services relative to project planning for further investigations at the site.

Project Manager; Interim Remedial Action, Contamination Assessment, Risk Assessment and Remediation at a Manufacturing Facility, Confidential Client—Conducted investigations at a clinical thermometer manufacturing facility in Lake County, Florida. Served as technical lead for consent order negotiations; successfully transferred project from RCRA enforcement to voluntary cleanup status. Conducted extensive interim remedial action to recover waste thermometers and glass fragments buried throughout the property, separated the glass fragments from soil, and treated the glass onsite using a retort to recover mercury for reuse at the facility. Remedial action recovered over 65 drums of glass fragments for processing; over 200 pounds of mercury were recovered for reuse. Employed results of remedial action to negotiate a more favorable scope of work for the client's contamination assessment and risk assessment efforts following the remedial action.

Senior Scientist; Environmental Audit Services for Tampa International Airport Property Acquisition Program, Tampa International Airport, Hillsborough County Aviation Authority (HCAA)—Performed Phase I and Phase II environmental auditing services for numerous properties acquired by the HCAA for airport. Phase I site-specific audit projects consisted of (1) record reviews, (2) historical reviews including aerial photography analysis, (3) site reconnaissance, (4) interviews, and (5) review of adjacent properties. Phase II assessments included asbestos surveys, monitoring well installation and groundwater sampling, soil sampling and screening, and preparation of corrective action plans and cost estimates for remediation.

Field Operations Manager; Contamination Assessment and Risk Assessment at the Liberty Square Public Housing Development, Dade County Department of Housing and Urban Development—Conducted a contamination assessment consisting of soil borings, soil sampling and total lead analy-

sis, collection of several hundred surficial soil samples collected throughout the development, and a preliminary human health risk assessment pursuant to potential lead exposure to the residents of the development.

Project Manager; Debris Removal Program and Coliform Source Identification Study in the Everglades Agricultural Area, Confidential Client—Conducted a fecal coliform bacteria source identification study in a 3,200-acre agricultural area drainage basin. Also conducting a debris/waste removal remedial action for various wastes illegally dumped into a canal within the farm's drainage network.

Senior Scientist; Phase II Environmental Assessment at a CSX Shop and Yard Site, The Home Depot, Inc.—Major tasks for the field investigation portion of the project located in St. Petersburg, Florida, included the following: (1) quantifying the residual soil contamination remaining on the site subsequent to completion of a large-scale interim remedial action; (2) resolving the presence of an area of potential soil contamination identified by one consultant but unconfirmed by another consultant's work in the same area; (3) addressing the possibility of undetected contamination which could detrimentally affect the planned construction of a 100,000-square-foot building and garden center; (4) investigating the potential for groundwater contamination by heavy metals and volatile organic compounds and the possible offsite migration; and (5) sampling soils onsite to determine the possibility of soil contamination by PCBs.

Project Manager; Contamination Assessment and Interim Remedial Action at the A.D. Weiss Lithograph Company, Eagle-Picher Industries, Inc. and St. Ives, Inc.—Responsibilities included conducting a detailed contamination assessment at a major printing facility in Florida, entailing soil gas surveys, soil borings, monitoring well installation, and groundwater sampling. The project also included an asbestos survey and associated abatement; a risk assessment to identify hazards, assess exposure and toxicity, develop site rehabilitation levels, and to focus the required corrective action process; and a feasibility study to develop, screen, and evaluate remedial alternatives. Interim remedial action consisted of the excavation and disposal of 11 below-grade structures, sumps, and USTs, and associated contaminated soil and fluids.

Project Manager; Preliminary Contamination Assessment, Eagle-Picher Industries, Inc.—Responsibilities included preparing a preliminary contamination assessment plan, an asbestos survey, monitoring well installation, performing soil and groundwater sampling, evaluating data from laboratory analyses, and preparing a preliminary contamination assessment report for an automotive gasket manufacturing facility in Lake County, Florida.

Project Manager; Remedial Investigation/Feasibility Study (RI/FS), and Risk Assessment at the Cabot Carbon/Koppers Superfund Site, Koppers Company, Beazer Materials and Services, Inc. and Cabot Corporation—Conducted RI/FS for multiple clients, responsibilities included assessing contamination, public health and environmental risk, and remedial measures delineation at a technically and administratively complex CERCLA site consisting of an active wood preserving plant, and a former charcoal/pine oil manufacturing facility. Duties included liaison with technical and legal representatives for the two potentially responsible parties, EPA Region IV and FDEP.

Project Director; Contamination Assessment at the Defense National Stockpile Center, Defense Logistics Agency—Project included the collection of over 300 soil samples for total lead and antimony analysis and subsequent

collection of soil samples for TCLP metals determination. Prepared estimates of contaminated soil volumes for hazardous and nonhazardous contaminant levels observed throughout the base metals ingot storage areas onsite, and provided recommendations for suitable disposal and treatment options for the nonhazardous and hazardous waste areas at the facility in Baton Rouge, Louisiana.

Technical Advisor; Remedial Investigation/Feasibility Study, Louisiana Army Ammunition Plant and Tobyhanna Army Depot, U.S. Army Toxic and Hazardous Materials Agency (USATHAMA)—The projects entailed a comprehensive contamination assessment and contaminant migration pathway assessment in complex soil and geologic conditions. Primary contaminants of concern included explosives and chlorinated solvents (DNAPLs); areas of concern included landfills, unlined lagoons, burning grounds, leaching pits, and explosives loading areas.

Project Director; Remedial Engineering Management for CERCLA Sites in the Eastern United States, EPA—Responsible for overall direction and coordination of CERCLA projects in the REM III program. Specific responsibilities included ensuring the technical quality of work assignments and the completion of all projects within budget and on schedule. Other duties included coordination with line managers to identify project management, technical staffing, and other resources required to meet the objectives of the program. Overall accomplishments included successful completion of four RI/FSs, two remedial design projects, construction oversight projects, and preparation of operations and maintenance plans.

Project Geologist; Environmental Impact Studies at Aberdeen Proving Ground and Ft. Lawton, U.S. Army Industrial Operations Command—Conducted environmental assessment and environmental impact studies for (1) the proposed CATO vehicle testing facility at Aberdeen Proving Ground (APG), Maryland, and (2) proposed construction at Ft. Lawton, Seattle, Washington under the Quick Reaction Engineering Services Contract. Technical areas of responsibility included geology, groundwater and soils impact assessment and overall site characterization for proposed facilities, and evaluation of the impact of existing site contamination from an adjoining CERCLA site (at APG project) on proposed construction.

Project Manager; RI/FS at the West Virginia Ordnance Works Superfund Site, USATHAMA—Responsibilities included assessing contamination, contaminant migration, public health risk, and remedial measures in soil, surface water, sediments, and groundwater as a result of past TNT manufacturing operations. Six areas of concern were evaluated within two operable units. Close coordination of the program with state and federal regulatory agencies and local government officials and citizens was conducted. Successful completion of the project resulted in the first Record of Decision executed for an Army CERCLA site jointly by the Army and EPA.

Project Manager; RI/FS at the Alabama Army Ammunition Plant Superfund Site, USATHAMA—Project consisted of conducting an RI/FS leading to release of property for unrestricted use. Responsibilities included assessing contamination, contaminant migration, public health risk, and remedial measures in soil, surface water, sediments, and groundwater as a result of past munitions (TNT, tetryl, smokeless powder) manufacturing operations. Remedial investigation tasks included surface water, groundwater, soil and sediment sampling, surface and borehole geophysical surveys, and aquifer testing. The

site contained 28 areas of concern related to the previous industrial activities within two operable units.

Project Director; RCRA Facility Assessments, EPA—Directed RCRA facility assessments at over 20 sites throughout the Eastern United States. Tasks included identification of solid waste management units (SWMUs), identifying problem areas at each SWMU resulting from hazardous waste management practices, assessing the contamination potential at each SWMU, designing field investigations and sampling plans, and implementing contamination assessments and reports. Facilities investigated included solvent recycling sites, chemical raw material and intermediates manufacturing sites, wood treatment sites, electroplating sites, a tooling and stamping facility, and numerous solvents and fuels contaminated sites.

Project Director; RI/FS at Patrick Air Force Base, U.S. Air Force (USAF)—Project included contamination assessment, human health and ecological risk assessment, and remedial action planning for 21 separate areas of concern. Project was conducted in accordance with USAF protocols under the Installation Restoration Program (IRP).

Project Director; RI/FS at Cape Canaveral Air Force Station, USAF—Project included contamination assessment, human health and ecological risk assessment, and remedial action planning for 12 separate areas of concern. Project was conducted in accordance with USAF protocols under the IRP.

Project Geologist; Groundwater Contamination (Pentachlorophenol [PCP]) Assessment and Remedial Design at the Naylor's Run Superfund Site, U.S. Coast Guard—Responsibilities at this wood preserving CERCLA site included analysis of contaminant plume extent, estimation of quality of oil/PCP present in groundwater, and liaison work with EPA, Pennsylvania Department of Environmental Resources, and local residents. Study also included assessment of best available technology to recover and treat oil/PCP and groundwater. Assessment resulted in recommendation of preferred remedial alternative and conceptual design of groundwater recovery/treatment system.

Project Manager; Contamination Assessment and Remediation of Groundwater Contamination From Chlorinated Hydrocarbons at Multiple Sites, Multiple Clients—Conducted numerous projects to assess groundwater contamination by trichloroethylene (TCE) and related chlorinated solvents at various industrial facilities including three stainless steel pipe/tubing manufacturing plants, electronics manufacturing plants, and a major instrument manufacturer. Responsibilities included monitor well network design, well drilling, flow system delineation, aquifer testing, development of legal strategy, and implementation of remedial programs including DNAPL recovery systems and design and construction of air strippers.

Project Geologist; Feasibility Studies to Determine Site Suitability for Industrial Waste, Municipal Refuse, and Sludge Disposal at Multiple Sites, Multiple Clients—Projects included assessing the geologic and hydrologic framework of abandoned quarries to determine their suitability for conversion to sanitary landfills, and evaluating soil suitability for land application of sludges and spray irrigation of treated sewage effluent.

Project Manager; Phase I, II, and III Environmental Audits and Asbestos Surveys for Commercial Real Estate Transactions at Multiple Sites, Multiple Clients—Served as director for dozens of transactional audits throughout the Southeastern United States. Representative sites included citrus operations,

cattle ranches and related agricultural facilities; automobile dealerships; printing plants; day-care facility; office complexes; planned roadway corridors; and various transportation projects.

Project Geologist; Remedial Design/Implementation at the City of Philadelphia Northwest Incinerator, City of Philadelphia—Project consisted of assessment and remediation of soil and groundwater degradation relative to an ash storage/dewatering area for a municipal waste incinerator situated in an abandoned rock quarry. Duties included preliminary survey of surface water and groundwater quality in the surrounding urban area, monitoring well installation, groundwater and surface water sampling and analysis, evaluation of site geology and fractured bedrock flow conditions, groundwater quality assessment, and recommendations to abate future groundwater impacts. Provided input into the design of impermeable basal liner, leachate collection system; installed groundwater remediation system.

Project Geologist; Contamination Assessment and Remedial Design/Implementation at Two Industrial Landfills, BASF Wyandotte Corporation—Duties included preliminary survey of surface water and groundwater quality in the area, monitoring well installation, groundwater and surface water sampling and analysis, evaluation of site geology and groundwater flow conditions, determination of waste type(s) and volumes, surface water and groundwater quality assessment. Project included analysis of active erosion taking place and flood potential and design of remedial measures for two landfills situated in the floodplain of a major tributary of the Ohio River in Huntington, West Virginia.

Project Manager/Task Manager; Underground Injection Control (UIC) Program Implementation at Multiple Sites Throughout United States, EPA—Managed a wide variety of technical and regulatory projects for EPA as part of the UIC Program. Representative projects included: (1) assessment of the impact of groundwater heat pumps on groundwater resources in the Tidewater area of southeastern Virginia; (2) inventory of all injection well classes in the State of Nevada; (3) numerous studies in the Appalachian oilfield, including aquifer exemption projects in Kentucky, Pennsylvania, and New York; (4) an environmental assessment of brine disposal practices in a 1,200-square-mile area in Kentucky; (5) an assessment of historic oilfield operational practices in Kentucky and the relationship to the UIC program; and (6) Class V well assessment in the State of Nevada.

Project Geologist; Contamination Assessment, Design of Remedial Measures and Closure at the Price's Landfill Superfund Site in Atlantic City, New Jersey, Price Trucking Company—Technical duties included development of groundwater sampling procedures, chain-of-custody controls, health and safety plan, quality assurance protocols, and technical efforts in support of litigation. Site objectives included delineation of contaminant plume, determination of aquifer properties, and completion of feasibility study to select remedial plan for the site.

Project Geologist; Groundwater Supply Development at Stone Bridge Estates Residential Development, DeLuca Development—Responsibilities included data evaluation, aquifer characterization, water balance calculations, and report preparation for two production well tests (75 and 175 gallons per minute [gpm]) in a fractured bedrock aquifer. Groundwater basin was delineated, and aquifer safe yield was determined.

Project Geologist; Groundwater Supply Development, Warrington Township Municipal Authority Well #5, Warrington Township Municipal Authority—Responsibilities included the design and execution of a 500 gpm production well test in a fractured bedrock aquifer, monitoring well siting and installation, residential well monitoring, and liaison with regulatory agencies and the public. Project included determination of aquifer safe yield, assessment of existing local/regional aquifer demand, and optimization of discharge rates and pumping schedules to promote proper utilization of groundwater resources.

Project Manager; Aquifer Testing for Remedial Design/Remedial Action, Plymouth Tube Company—Responsibilities included design and implementation of a limited aquifer testing program to provide design input for a groundwater and DNAPL recovery and treatment program. Project duties included production well installation, monitoring well siting and installation, aquifer testing, data reduction, and report preparation.

Project Geologist; Aquifer Testing for Remedial Design/Remedial Action, Superior Tube Company—Responsibilities included field supervision of a 100 gpm production well test, data reduction, and report preparation. Testing program results led to expanding a groundwater recovery network to augment contaminant plume management for TCE.

Technical QA Manager/Field Oversight; Aquifer Testing for Remedial Design at Marine Corps Base Camp LeJeune, North Carolina, Marine Corps Base Camp LeJeune—Provided senior-level review of aquifer test program design and logistics, field oversight during the drawdown and recovery phases, and technical review of data evaluation and project reports.

Senior Scientist; Level I and Level II Hazardous Materials Surveys, Florida Department of Transportation (FDOT), District One and District Seven—Conducted over 20 Phase I environmental site assessments and contamination assessments for the FDOT throughout Central and Southwest Florida in support of planned and ongoing roadway construction projects. Projects routinely involved land acquisition assessment services along highway right-of-way and adjacent parcels through mixed land use areas, ranging from urban areas to various citrus, cattle, fruit/vegetables, and related agricultural tracts. Typical transportation projects included roadway realignments, roadway widening, pond and/or wetland mitigation areas, and utility improvements. Work conducted included Level I and II assessments following the protocols described in the FDOT document *PD&E Guidelines Manual* (Part 2, Chapter 22, Revised February 8, 1994).

Project Manager, Contamination Assessment and Remedial Planning, Gas Regulating Station, Confidential Client—Project entailed conducting soil and groundwater assessment at a gas regulating station located at a power generating station in Central Florida. Work included analytical characterization, delineation of soil groundwater impacts, and formulation of a remedial action plan for site conditions resulting from discharges of gas condensate. Implementation of remedial action plan is pending.

Task Manager; South Florida Power Plant Siting Study, Florida Power & Light Company (FPL)—Responsible for geologic and groundwater issues to support the siting of a power plant within a 15-county area of South Florida. Power plant options considered were from 400 to 1,600 MW. Following regional screening, over 70 sites were evaluated, resulting in the selection of nine favorable sites.

Task Manager; Power Plant Site Certification Application (SCA), The AES Corporation—Responsible for geologic and groundwater issues to support the preparation of a formal SCA for a 350-MW coal-fired cogeneration site in St. Lucie County, Florida. Major efforts included cooling tower blow-down disposal feasibility via deep well injection in the Boulder Zone, construction dewatering program, and aquifer delineation and water quality assessment.

Task Manager; Post-Certification Efforts at the Lauderdale Plant, FPL—Responsible for the evaluation of various groundwater supply scenarios for the repowering of Lauderdale Units 4 and 5. Project included the assessment of an existing production well in the Biscayne aquifer, evaluation and cost/benefit analysis of rehabilitation of the well versus groundwater production options utilizing the Floridan aquifer.

Project Manager; Sinkhole Hazard Surveys Throughout Florida, ENRON Gas Pipeline Operating Company—Completed 11 Phase I and Phase II sinkhole hazard surveys for a variety of compressor station and gas pipeline sites throughout the state of Florida. Phase I projects included an assessment of the geologic setting at each site, compilation and mapping of known sinkholes within a 10-mile radius of the planned facility, statistical analysis of the dimensions, distribution and frequency of sinkhole occurrence in the study area, and an assessment of the likelihood of sinkhole occurrence at each site. Phase II efforts included limited field surveys to augment the database, and engineering and geotechnical design in partnership with the client's engineering design staff such that an installed pipeline could support a collapse of predicted dimensions.

Assistant Project Manager; Groundwater Monitoring Plan for the Hardee Power Station, Hardee Power Partners and TECO Power Services—Compiled a groundwater monitoring plan for baseline groundwater characterization at the Hardee Power Station, delineated monitoring well construction specifications, well locations, water quality parameters, and sampling frequency for the cooling reservoir and stormwater detention pond.

Presentations

Hendry, C.D. and D.L. Kraus. 1985. U.S. Department of Defense Superfund Implementation at a Former TNT Manufacturing Facility. National Conference on Management of Uncontrolled Hazardous Waste Sites, November 4-6, 1985, Washington, D.C.

Kraus, D.L. and A.L. Dunn. 1983. Trichloroethylene Occurrence and Ground Water Restoration in Highly Anisotropic Bedrock. Third National Symposium on Aquifer Restoration and Groundwater Monitoring, May 25-27, 1983, Columbus, Ohio.

